

KRAFT 4 SEASONS ELASTIC White

Revision nr.9 Dated 16/03/2022 Printed on 17/03/2022 Page n. 1 / 12 Replaced revision:8 (Dated 09/10/2020)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ECTION 1. Identi								
1. Product identifier								
Code:		CK33102000						
Product name		KRAFT 4 SE	ASONS ELASTIC Wh	ite				
2. Relevant identified u	ises of the substance or	mixture and us	es advised against					
Intended use		Elastomeric	waterproofing paint	for exterior	walls			
3. Details of the suppli	er of the safety data shee	et						
Name			BEN HELLAS SA					
Full address District and Country		Megaridos A 193 00	Ave Aspropyrgos		(Attiki)			
District and Osantry		155 00	Greece		(Autri)			
		Tel.	+30 210 5519500					
e-mail address of the co	ompetent person	Fax	+30 210 5519501					
responsible for the Safe		psafety@dru	uckfarben.gr					
4. Emergency telephor	ne number							
For urgent inquiries refe	er to	+30 210 7793	3777					
ECTION 2. Hazaı	ds identification							
The product is not class	substance or mixture	•		0	· ·	,	quires a safety	data
The product is not class However, since the pro	substance or mixture sified as hazardous pursua duct contains hazardous s nformation, compliant to (E	substances in co	ncentrations such as to	0	· ·	,	quires a safety	data
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The product is not class However, since the pro sheet with appropriate i Hazard classification ar 2. Label elements Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066	substance or mixture sified as hazardous pursua duct contains hazardous s nformation, compliant to (E and indication: ant to EC Regulation 1272/ Repeated exposure ma Safety data sheet avai Contains: R	substances in co EU) Regulation 2 2008 (CLP) and 2008 in request leaction mass of	ncentrations such as to 2020/878. subsequent amendme	o be declare ents and sup	one [EC no.	no. 3, it rec		data
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The product is not class However, since the pro sheet with appropriate i Hazard classification ar 2. Label elements Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	substance or mixture sified as hazardous pursua duct contains hazardous s nformation, compliant to (E nd indication: ant to EC Regulation 1272/ Repeated exposure ma Safety data sheet avai Contains: R 2- 1, R	substances in co EU) Regulation 2 2008 (CLP) and 2008 (CLP) and 2008 in request ceaction mass of -methyl-2H-isoth 2-Benzisothiazo ceaction mass of entametyl-4-pipe	ryness or cracking. 5-chloro-2-methyl-4-is iazol-3-one [EC no. 220 bi-3(2H)-one i Bis(1,2,2,6,6- pentam	o be declare ents and sup sothiazolin-3- 0-239-6] (3:2	one [EC no.	no. 3, it rec 247-500-7]	and	data
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SECTION 2. Hazards identification ... / >>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product contains substances with endocrine disrupting properties in concentration $\ge 0.1\%$. 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Con	c. %	Classification (EC) 1272/2008 (CLP)
1-isopropyl-2	,2-dimethyltrimethy	ylene diisobutyı	ate
CAS	6846-50-0	0,5 ≤ x < 1	Repr. 2 H361d
EC	229-934-9		
INDEX			
REACH Reg.	01-2119451093-4	7-0000	
Toluene			
CAS	108-88-3	0 ≤ x < 0,5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC	203-625-9		
INDEX	601-021-00-3		
REACH Reg.	01-2119471310-5	1	
		• •	piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate
CAS	1065336-91-5	0 ≤ x < 0,1	Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	915-687-0		
INDEX			
REACH Reg.		0-00XX	
	niazol-3(2H)-one		
CAS	2634-33-5	0 ≤ x < 0,05	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
			Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
INDEX	613-088-00-6	_	LD50 Oral: 1150 , STA Inhalation mists/powders: 0,051 mg/l
REACH Reg.			
	ss of: 5-chloro-2-m	ethyl-4-isothiaz	olin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3:1)	55005 04 0	0 4 4 4 0 004	Anuta Tau O 1040 Anuta Tau O 1000 Anuta Tau O 1004 Okin Ones 40
CAS	55965-84-9	0 ≤ x < 0,001	 Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
INDEX	613-167-00-5		STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory Referer	nces:								
BGR	Българ	ия		1 С ЕКСПОЗИ)3 Г. ЗА ЗАЩИТА ИЧНИ АГЕНТИ ПІ		•	
DEU	Deutsch	nland	Technische Kurzzeitwer	n Regeln für G te. MAK- und l		RGS 900) - Liste de te 2020, Ständige \$ tteilung 56			
GRC	Ελλάδα		Π.Δ. 26/202 οδηγιών 20 2004/37/EK	20 (ΦΕΚ 50/Α` 17/2398/ΕΕ, 2 ΄ "σχετικά με τι	6.3.2020) Ενα _ί 019/130/ΕΕ κα νη προστασία τ	ομόνιση της ελληνι ι 2019/983/ΕΕ «για ων εργαζομένων α ιγόνους παράγοντι	α την τροποπα από τους κινδ	οίηση της οδι ύνους που σ	ηγίας
ITA	Italia			gislativo 9 Apri		μονούς παράγονη		βγάσια //	
GBR		Kingdom			,	ourth Edition 2020	0		
EU	OEL EL	0	Directive (E 2017/2398;	U) 2019/1831; Directive (EU)	Directive (EU) 2017/164; Directive	2019/130; Directive ective 2009/161/EL tive 98/24/EC; Directive	, ve (EU) 2019/ J; Directive 2	006/15/EC; C	
	TLV-AC	GIH	ACGIH 202	-		,			
				٦	oluene				
Threshold Limit V									
Туре	Country	TWA/8 mg/m3		STEL/19 mg/m3	omin ppm	Remarks / Ob	servations		
TLV	BGR	150		300					
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200				
TLV	GRC	375	100	560	150				
VLEP	ITA	192	50		100	SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH		75,4	20						
Predicted no-effect			IEC				0.68	m a /l	
Normal value in Health - Derived n							0,00	mg/l	
Health - Derived h		ffects on cor				Effects on work	ore		
Route of exposu			Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
			systemic	local	systemic	Acute local	systemic	local	systemic
Inhalation	10		Jotonno	10001	oyotonno	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin						-	-	VND	384 mg/kg

Reaction mass	of: 5-chloro-2	-methyl-4-is	othiazolin-3	-one [EC no. 247-500-7]	and 2-methyl-2H-isothiazol-3-one [EC no.
220-2	239-6] (3:1)				
Threshold Lim	it Value				
Туре	Country	TWA/8h		STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3 ppm	
AGW	DEU	0,05			SKIN



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SECTION 8. Exposure controls/personal protection/>>

1-isopropyl-2 2-dimethyltrimethylene dijsobutyrat

		1-isopro	pyi-z,z-aimetri	yitrimetnyiene o	unsobulyrale			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,014	mg/l	
Normal value in marin	ne water					0,0014	mg/l	
Normal value for fres	h water sedi	ment				1,15	mg/kg	
Normal value for mar	ine water se	ediment				0,115	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on wor	kers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	18,8 mg/kg bw/d				
Inhalation			VND	32,6 mg/m3			VND	110 mg/m3
Skin			VND	18,8 mg/kg bw/d			VND	31,2 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Upper explosive limitNot availableFlash point> 60 °C	Flash point	> 60 °C
· · · · · · · · ·	Auto-ignition temperature	Not available

Information

Concentration: 100 % Temperature: 25 °C



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SECTION 9. Physical and chemical pro	perties / >>	
Kinematic viscosity	1200-4000 mm2/s	Method:Converting Formula from Dynamic Viscosity & Density Temperature: 25 °C
Dynamic viscosity	100-140 KU	Method:ASTM D 562-05 Temperature: 25 °C
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,25-1,43 g/cm3	Method:ISO 2811 Temperature: 25 °C
Relative vapour density	Not available	
Particle characteristics	Not applicable	
9.2. Other information		
9.2.1. Information with regard to physical haz	ard classes	
Information not available		
9.2.2. Other safety characteristics		
Total solids (250°C / 482°F)	42,75 %	
VOC (Directive 2010/75/EU)	0,41 %	
SECTION 10. Stability and react		

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Toluene

TOLUENE: breaks down in sunlight.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Toluene

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents,strong bases,strong acids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toluene

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information



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SECTION 11. Toxicological information .../>> Information on likely routes of exposure Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

> Toluene LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

1,2-Benzisothiazol-3(2H)-one LD50 (Dermal): LD50 (Oral):

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

> 5000 mg/kg Rabbit > 5000 mg/kg Rat > 20 mg/l/4h Rat

> 2000 mg/kg Rat 1150 mg/kg Mouse

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

LD50 (Dermal):	1000 mg/kg Rat
STA (Dermal):	50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP
	(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	550 mg/kg Rat
LC50 (Inhalation vapours):	0,31 mg/l Rat
1-isopropyl-2.2-dimethyltrimethylene diisobutyrate	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation vapours):	> 0,12 mg/l/6h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 1,2-Benzisothiazol-3(2H)-one

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY



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SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 1200-4000 mm2/s

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny: 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Toluene LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

1,2-Benzisothiazol-3(2H)-one LC50 - for Fish EC50 - for Algae / Aquatic Plants > 1 mg/l/96h > 1 mg/l/48h > 100 mg/l/72h 2 mg/l Daphnia magna

0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)



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SECTION 12. Ecological information / >>	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin- LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 0,58 mg/l/96h 0,161 mg/l/72h 0,032 mg/l 96h
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	> 7,49 mg/l/72h > 6 mg/l > 1,46 mg/l
12.2. Persistence and degradability	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin- NOT rapidly degradable 12.3. Bioaccumulative potential	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 30 %, Exposure time: 28 d, OECD Test Guideline 301B
Toluene BCF	8,32
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: n-octanol/water BCF	4,04 Log Kow 1,95
12.4. Mobility in soil	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: soil/water	2,69
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does no	t contain any PBT or vPvB in percentage ≥ than 0,1%.
40.0 Finds wine diamenting any setting	

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable



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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category	- Directive 2012/18	<u>EU:</u> None	
Restrictions relati	ng to the product or	contained substances pursuant to Annex	XVII to EC Regulation 1907/2006
Product			
Point	40		
Contained subs	<u>tance</u>		
Point	75		
Point	48	Toluene	
		REACH Reg.: 01-2119471310-51	
Regulation (EU) 2	2019/1148 - on the r	narketing and use of explosives precursors	<u>s</u>
Not applicable			
	andidate List (Art. 59 vailable data, the pr	<u>REACH)</u> oduct does not contain any SVHC in perce	entage ≥ than 0,1%.
.			

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Repr. 2	Reproductive toxicity, category 2



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SECTION 16. Other information .../>>

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Skin Sens. 1A	Skin sensitization, category 1A
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H225	Highly flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H310	Fatal in contact with skin.
H301	Fatal if inhaled.
H304	Toxic if swallowed.
H373	May be fatal if swallowed and enters airways.
H314	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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SECTION 16. Other information ... / >>

- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 01/02/03/08/09/10/11/12/13/15/16. FN



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KRAFT 4 SEASONS ELASTIC Base A

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identifi	cation of the suc					3	
1.1. Product identifier							
Code:		CK33102A00					
Product name		_	ASONS ELASTIC Base	A			
1.2. Relevant identified use	es of the substance or i	mixture and us	es advised against				
Intended use		Elastomeric	waterproofing paint for	r exterior w	valls		
1.3. Details of the supplier	of the safety data shee	t					
Name			BEN HELLAS SA				
Full address District and Country		Megaridos A 193 00	Ave Aspropyrgos		(Attiki)		
		T -1	Greece		, , ,		
		Tel. Fax	+30 210 5519500 +30 210 5519501				
e-mail address of the com responsible for the Safety		psafety@dru	ickfarbon gr				
, , , , , , , , , , , , , , , , , , , ,		psalety@uit	ickiaiben.gi				
.4. Emergency telephone							
For urgent inquiries refer	to	+30 210 7793	3777				
SECTION 2. Hazard	s identification						
.1. Classification of the su	ubstance or mixture						
The wardwet is wet close if			and eat forth in EC Dame	dation 1070			
The product is not classifi However, since the produ sheet with appropriate info	ct contains hazardous si	ubstances in co	ncentrations such as to b			. 3, it requires a safe	ty data
However, since the produ	ct contains hazardous so ormation, compliant to (E	ubstances in co	ncentrations such as to b			. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and	ct contains hazardous so ormation, compliant to (E	ubstances in co	ncentrations such as to b			. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and	ict contains hazardous si ormation, compliant to (E indication:	ubstances in co EU) Regulation 2	ncentrations such as to b 2020/878.	be declared	in section no	. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements	ict contains hazardous si ormation, compliant to (E indication:	ubstances in co EU) Regulation 2	ncentrations such as to b 2020/878.	be declared	in section no	. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant	ict contains hazardous si ormation, compliant to (E indication:	ubstances in co EU) Regulation 2	ncentrations such as to b 2020/878.	be declared	in section no	. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words:	ict contains hazardous si ormation, compliant to (E indication:	ubstances in co EU) Regulation 2	ncentrations such as to b 2020/878.	be declared	in section no	9. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms:	ict contains hazardous si ormation, compliant to (E indication:	ubstances in co EU) Regulation 2 2008 (CLP) and	ncentrations such as to b 2020/878. subsequent amendments	be declared	in section no	. 3, it requires a safe	ty data
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	indication:	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request	ncentrations such as to b 2020/878. subsequent amendments	be declared	in section no		ty data
However, since the product sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066	indication:	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of:	ncentrations such as to b 2020/878. subsequent amendments yness or cracking.	be declared s and suppl hiazolin-3-o	in section no		ty data
However, since the product sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	indication:	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of:	ncentrations such as to b 2020/878. subsequent amendments 	be declared s and suppl hiazolin-3-o	in section no		ty data
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	indication:	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of: methyl-2H-isoth 2-Benzisothiazo eaction mass of:	ncentrations such as to b 2020/878. subsequent amendments : 5-chloro-2-methyl-4-isotl iazol-3-one [EC no. 220-2 ol-3(2H)-one : Bis(1,2,2,6,6- pentameth	be declared s and suppl hiazolin-3-o 239-6] (3:1)	in section no ements. ne [EC no. 24	17-500-7] and	
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	indication:	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of: methyl-2H-isoth 2-Benzisothiazo eaction mass of: entametyl-4-pipe	ncentrations such as to b 2020/878. subsequent amendments : 5-chloro-2-methyl-4-isotl iazol-3-one [EC no. 220-2 ol-3(2H)-one : Bis(1,2,2,6,6- pentameth	be declared s and suppl hiazolin-3-o 239-6] (3:1)	in section no ements. ne [EC no. 24	17-500-7] and	
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However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208	indication: indication: to EC Regulation 1272/2 Repeated exposure ma Safety data sheet avail Contains: Re 2- 1, Re May produce an allergi	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of: methyl-2H-isoth 2-Benzisothiazo eaction mass of: entametyl-4-pipe c reaction.	ncentrations such as to b 2020/878. subsequent amendments : 5-chloro-2-methyl-4-isotl iazol-3-one [EC no. 220-2 ol-3(2H)-one : Bis(1,2,2,6,6- pentameth	be declared s and suppl hiazolin-3-o 239-6] (3:1) hyl-4-piperic	in section no ements. ne [EC no. 24 lyl) Sebacate	17-500-7] and and Methyl 1,2,2,6,6	
However, since the product sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208 Precautionary statements P501	indication: indication: to EC Regulation 1272/2 Repeated exposure ma Safety data sheet avail Contains: Re 2- 1, Re May produce an allergi	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of: methyl-2H-isoth 2-Benzisothiazo eaction mass of: entametyl-4-pipe c reaction.	ncentrations such as to b 2020/878. subsequent amendments : 5-chloro-2-methyl-4-isott iazol-3-one [EC no. 220-2 ol-3(2H)-one : Bis(1,2,2,6,6- pentameth ridyl Sebacate	be declared s and suppl hiazolin-3-o 239-6] (3:1) hyl-4-piperic	in section no ements. ne [EC no. 24 lyl) Sebacate	17-500-7] and and Methyl 1,2,2,6,6	
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208	indication: indication: to EC Regulation 1272/2 Repeated exposure ma Safety data sheet avail Contains: Re 2- 1, Re May produce an allergi	ubstances in co EU) Regulation 2 2008 (CLP) and 2008 (CLP) and ay cause skin dr able on request eaction mass of: methyl-2H-isoth 2-Benzisothiazo eaction mass of: entametyl-4-pipe c reaction.	ncentrations such as to b 2020/878. subsequent amendments : 5-chloro-2-methyl-4-isott iazol-3-one [EC no. 220-2 ol-3(2H)-one : Bis(1,2,2,6,6- pentameth ridyl Sebacate	be declared s and suppl hiazolin-3-o 239-6] (3:1) hyl-4-piperic	in section no ements. ne [EC no. 24 lyl) Sebacate	17-500-7] and and Methyl 1,2,2,6,6	
However, since the produ sheet with appropriate info Hazard classification and 2.2. Label elements Hazard labelling pursuant Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208 Precautionary statements P501 P102	Indication: indication: to EC Regulation 1272/2 Repeated exposure ma Safety data sheet avail Contains: Re 2 1, Re May produce an allergi : Dispose of contents an national / international Keep out of reach of ch Keep container tightly of If medical advice is need	ubstances in co EU) Regulation 2 2008 (CLP) and ay cause skin dr able on request eaction mass of: methyl-2H-isoth 2-Benzisothiazo eaction mass of: entametyl-4-pipe c reaction. and container to a regulations. hildren. closed. eded, have prod	ncentrations such as to b 2020/878. subsequent amendments : 5-chloro-2-methyl-4-isott iazol-3-one [EC no. 220-2 ol-3(2H)-one : Bis(1,2,2,6,6- pentameth ridyl Sebacate	be declared s and suppl hiazolin-3-o 239-6] (3:1) hyl-4-piperic sal plant or hand.	in section no ements. ne [EC no. 24 lyl) Sebacate	17-500-7] and and Methyl 1,2,2,6,6	



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SECTION 2. Hazards identification ... / >>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product contains substances with endocrine disrupting properties in concentration $\ge 0.1\%$. 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Con	c. %	Classification (EC) 1272/2008 (CLP)
1-isopropyl-2	,2-dimethyltrimethy	/lene diisobutyr	ate
CAS	6846-50-0	0,5 ≤ x < 1	Repr. 2 H361d
EC	229-934-9		
INDEX			
REACH Reg.	01-2119451093-4	7-0000	
Toluene		0.4 . 0.5	
CAS	108-88-3	0 ≤ x < 0,5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC	203-625-9		
INDEX	601-021-00-3		
REACH Reg.			
			piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate
CAS	1065336-91-5	0 ≤ x < 0,1	Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	915-687-0		
INDEX			
REACH Reg.		0-00XX	
	niazol-3(2H)-one		
CAS	2634-33-5	$0 \le x \le 0.05$	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
50			Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
	613-088-00-6	^	LD50 Oral: 1150 , STA Inhalation mists/powders: 0,051 mg/l
REACH Reg.			
	ss of: 5-chioro-2-m	ethyl-4-isothiaz	olin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3:1) CAS	55965-84-9	$0 \le x \le 0.001$	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C
CAS	55965-64-9	0 ≤ X < 0,001	H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
INDEX	613-167-00-5		STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory Refere	nces:								
BGR	България	1		1 С ЕКСПОЗИ)3 Г. ЗА ЗАЩИТА ИЧНИ АГЕНТИ П		•	,
DEU	Deutschla	and	Technische Kurzzeitwer	n Regeln für G te. MAK- und E		RGS 900) - Liste d te 2020, Ständige tteilung 56			
GRC	Ελλάδα		Π.Δ. 26/202 οδηγιών 20 2004/37/EK	0 (ΦΕΚ 50/Α` 17/2398/ΕΕ, 20 "σχετικά με τη	6.3.2020) Εναρ 019/130/ΕΕ κα γν προστασία τ	ομόνιση της ελλην ι 2019/983/ΕΕ «γιι ων εργαζομένων ιγόνους παράγοντ	α την τροποπ από τους κινδ	οίηση της οδ ύνους που α	ηγίας
ITA	Italia			islativo 9 April		, , 3	- ,	F I	
GBR	United Kir	ngdom	EH40/2005	Workplace exp	oosure limits (F	ourth Edition 2020))		
EU	OEL EU		2017/2398;	Directive (EU)	2017/164; Dire	2019/130; Directi ective 2009/161/E tive 98/24/EC; Dir	U; Directive 2	006/15/EC; [()
	TLV-ACG	IH	ACGIH 202	1					
				Т	oluene				
Threshold Limit	Value								
Туре	Country	TWA/8 mg/m3		STEL/15 mg/m3	ōmin ppm	Remarks / Ob	servations		
TLV	BGR	150		300					
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200				
TLV	GRC	375	100	560	150	-			
VLEP	ITA	192	50		100	SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH Predicted no-effe	et concontr	75,4	20						
Normal value in			IEC				0,68	mg/l	
Health - Derived			/ DMEL				0,00	ing/i	
Doniou		ects on cor				Effects on work	ers		
Route of expos		ute A	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					-	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin								VND	384 mg/kg

Reaction mass	of: 5-chloro-2	-methyl-4-is	othiazolin-	3-one [EC no. 247-500-7]	and 2-methyl-2H-isothiazol-3-one [EC no.	
220-2	39-6] (3:1)					
Threshold Limi	it Value					
Туре	Country	TWA/8h		STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3 ppm		
AGW	DEU	0,05			SKIN	



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SECTION 8. Exposure controls/personal protection/>>

1-isopropyl-2.2-dimethyltrimethylene diisobuty	rate

		1-isopro	pyi-z,z-aimeth	yitrimetnyiene	diisobutyrate				
Predicted no-effect con	centration	- PNEC							
Normal value in fresh	water					0,014	mg/l		
Normal value in marir	ne water					0,0014	mg/l		
Normal value for fresh	n water sedi	ment				1,15	mg/kg		
Normal value for marine water sediment						0,115	mg/kg		
Health - Derived no-effe	ect level - D	NEL / DMEL							
	Effects or	n consumers			Effects on wor	kers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral		-	VND	18,8 mg/kg bw/d		-		-	
Inhalation			VND	32,6 mg/m3			VND	110 mg/m3	
Skin			VND	18,8 mg/kg bw/d			VND	31,2 mg/kg bw/d	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point	Value liquid Off-White mild Not available Not available Not available Not available Not available

Information

Concentration: 100 % Temperature: 25 °C



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SECTION 0. Developed and chamical prop	ortion />>			
SECTION 9. Physical and chemical prope	erties / >>			
Kinematic viscosity	1200-4000 mm	2/s	Method:Converting Formula from Dynami	с
			Viscosity & Density	/
			Temperature: 25 °C	
Dynamic viscosity	125-140KU		Method:ASTM D 562-05	
	N 1 1 1		Temperature: 25 °C	
Solubility	Not available			
Partition coefficient: n-octanol/water	Not available			
Vapour pressure	Not available	alom?	Method:ISO 2811	
Density and/or relative density	1,25-1,43	g/cm3	Temperature: 25 °C	
Relative vapour density	Not available		Temperature. 25 G	
Particle characteristics	Not applicable			
9.2. Other information				
9.2.1. Information with regard to physical haza	rd classes			
Information not available				
9.2.2. Other safety characteristics				
Total solids (250°C / 482°F)	36,36 %			
VOC (Directive 2010/75/EU)	0,47 %			
SECTION 10. Stability and reactive	vitv			

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Toluene

TOLUENE: breaks down in sunlight.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Toluene

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents,strong bases,strong acids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toluene

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information



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ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) t classified (no significant component) t classified (no significant component)
Information not available Delayed and immediate effects as well as chronic effects from sh Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
Delayed and immediate effects as well as chronic effects from st Information not available Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
ACUTE TOXICITY ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
ATE (Inhalation) of the mixture: No ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
ATE (Oral) of the mixture: No ATE (Dermal) of the mixture: No Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	t classified (no significant component) t classified (no significant component) 5000 mg/kg Rabbit 5000 mg/kg Rat
Toluene LD50 (Dermal): > 5 LD50 (Oral): > 5	5000 mg/kg Rabbit 5000 mg/kg Rat
LD50 (Dermal): > 5 LD50 (Oral): > 5	5000 mg/kg Rat
LD50 (Dermal): > 5 LD50 (Oral): > 5	5000 mg/kg Rat
LC50 (Inhalation vapours): > 2	20 mg/l/4h Rat
1,2-Benzisothiazol-3(2H)-one	
	2000 mg/kg Rat
LD50 (Oral): 115	50 mg/kg Mouse
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one (3:1)	e [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
	00 mg/kg Rat
	,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP
	jure used for calculation of the acute toxicity estimate of the mixture)
	0 mg/kg Rat
	11 mg/l Rat
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	
LD50 (Dermal): > 2	2000 mg/kg Rat
	2000 mg/kg Rat
LC50 (Inhalation vapours): > 0),12 mg/l/6h Rat
SKIN CORROSION / IRRITATION	
Repeated exposure may cause skin dryness or cracking.	
SERIOUS EYE DAMAGE / IRRITATION	
Does not meet the classification criteria for this hazard class	
RESPIRATORY OR SKIN SENSITISATION	
May produce an allergic reaction.	
Contains:	
	o. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
1,2-Benzisothiazol-3(2H)-one Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebac	cate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate
Respiratory sensitization	
Information not available	
Skin sensitization	
Information not available	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class	
CARCINOGENICITY	
	EPY 11.1.2 - SDS 10



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SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 1200-4000 mm2/s

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny: 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Toluene LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

1,2-Benzisothiazol-3(2H)-one LC50 - for Fish EC50 - for Algae / Aquatic Plants > 1 mg/l/96h > 1 mg/l/48h > 100 mg/l/72h 2 mg/l Daphnia magna

0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)



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SECTION 12. Ecological information / >>	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 0,58 mg/l/96h 0,161 mg/l/72h 0,032 mg/l 96h
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	> 7,49 mg/l/72h > 6 mg/l > 1,46 mg/l
12.2. Persistence and degradability	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 NOT rapidly degradable 12.3. Bioaccumulative potential	-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 30 %, Exposure time: 28 d, OECD Test Guideline 301B
Toluene BCF	8,32
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: n-octanol/water BCF	4,04 Log Kow 1,95
12.4. Mobility in soil	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: soil/water	2,69
12.5. Results of PBT and vPvB assessment	

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable



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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

_ .

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Direc	ctive 2012/18	<u>/EU:</u>	None		
Restrictions relating to the	<u>he product or</u>	r contained substances	s pursuant to Annex XVII	to EC Regulation 19	07/2006
Product				-	
Point	40				
Contained substance					
Point	75				
Point	48	Toluene			
		REACH Reg.: 0	1-2119471310-51		

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors Not applicable

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Repr. 2	Reproductive toxicity, category 2



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SECTION 16. Other information .../>>

Asp. Tox. 1Aspiration hazard, category 1STOT RE 2Specific target organ toxicity - repeated exposure, category 2Skin Corr. 1CSkin corrosion, category 1CEye Dam. 1Serious eye damage, category 1Skin Sens. 1ASkin sensitization, category 1ASTOT SE 3Specific target organ toxicity - single exposure, category 3Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 1Hazardous to the aquatic environment, acute toxicity, category 1Hazardous to the aquatic environment, chronic toxicity, category 1Hazardous to the aquatic environment, acute toxicity, category 1Hazerdous to the aquatic environment, environment, environment, acute toxicity, category 1H361dUspected of damaging fertility.H310Fatal in conta	Skin Corr. 1C Eye Dam. 1 Skin Sens. 1A STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1 1225 1361d 1361f 1310 1330 1301 1304 1373 1314 1318 1317 1336 1400 1410 EUH066 EUH071	 Skin corrosion, category 1C Serious eye damage, category 1 Skin sensitization, category 1A Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Highly flammable liquid and vapour. Suspected of damaging the unborn child. Suspected of damaging fertility. Fatal in contact with skin. Fatal if inhaled. Toxic if swallowed. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure Causes serious eye damage. May cause an allergic skin reaction. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Corrosive to the respiratory tract. 	÷.
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LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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SECTION 16. Other information ... / >>

- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 03 / 09 / 10 / 11 / 16.



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KRAFT 4 SEASONS ELASTIC Base D

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identifi	cation of the substa	ance/mixture and of the company/undertaking
1.1. Product identifier		
Code:		
Product name		(RAFT 4 SEASONS ELASTIC Base D
		ture and uses advised against
Intended use	E	Elastomeric waterproofing paint for exterior walls
1.3. Details of the supplier	of the safety data sheet	
Name Full address District and Country	M 19 Ta	DRUCKFARBEN HELLAS SA Megaridos Ave 193 00 Aspropyrgos (Attiki) Greece fel. +30 210 5519500 Fax +30 210 5519501
e-mail address of the com responsible for the Safety		osafety@druckfarben.gr
I.4. Emergency telephone	number	
For urgent inquiries refer t	o +:	-30 210 7793777
SECTION 2 Hozard	identification	
SECTION 2. Hazard	sidentification	
2.1. Classification of the su	bstance or mixture	
	rmation, compliant to (EU) F	tances in concentrations such as to be declared in section no. 3, it requires a safety data Regulation 2020/878.
2.2. Label elements		
Hazard labelling pursuant	to EC Regulation 1272/2008	8 (CLP) and subsequent amendments and supplements.
Hazard pictograms:		
Signal words:		
Hazard statements: EUH066 EUH210 EUH208	Safety data sheet available Contains: Reacti 2-meth 1,2-Be Reacti	tion mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and hyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) enzisothiazol-3(2H)-one tion mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 metyl-4-piperidyl Sebacate
Precautionary statements: P501 P102 P233 P101 P301+P312	Dispose of contents and contact and contact and international regulation reach of childred Keep container tightly close of the formation of th	en.



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SECTION 2. Hazards identification ... / >>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product contains substances with endocrine disrupting properties in concentration $\ge 0.1\%$. 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Con	c. %	Classification (EC) 1272/2008 (CLP)
1-isopropyl-2	,2-dimethyltrimethy	ylene diisobuty	ate
CAS	6846-50-0	0,5≤x< 1	Repr. 2 H361d
EC	229-934-9		
INDEX			
REACH Reg.	01-2119451093-4	7-0000	
Toluene			
CAS	108-88-3	0 ≤ x < 0,5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC	203-625-9		
INDEX	601-021-00-3		
REACH Reg.	01-2119471310-5	1	
		• •	-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate
CAS	1065336-91-5	0 ≤ x < 0,1	Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	915-687-0		
INDEX			
REACH Reg.		0-00XX	
	niazol-3(2H)-one		
CAS	2634-33-5	0 ≤ x < 0,05	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
			Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
INDEX	613-088-00-6		LD50 Oral: 1150 , STA Inhalation mists/powders: 0,051 mg/l
REACH Reg.	01-2120761540-6		
	ss of: 5-chloro-2-m	ethyl-4-isothiaz	olin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3:1) CAS	55965-84-9	0≤x< 0.001	5 Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C
CAS	55965-64-9	0 ≤ X < 0,001	H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
INDEX	613-167-00-5		STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory Refere	nces:								
BGR	България	я		И С ЕКСПОЗИ		03 Г. ЗА ЗАЩИТА ИЧНИ АГЕНТИ П		•	,
DEU	Deutschla	and	Technische Kurzzeitwei	en Regeln für G	BAT-Werte-Lis	RGS 900) - Liste de te 2020, Ständige tteilung 56			
GRC	Ελλάδα		Π.Δ. 26/202 οδηγιών 20 2004/37/Εκ	20 (ΦΕΚ 50/Α` 17/2398/ΕΕ, 20 ζ ''σχετικά με τr	6.3.2020) Ενα 019/130/ΕΕ κα γν προστασία τ	ομόνιση της ελληνι ι 2019/983/ΕΕ «για ων εργαζομένων α ιγόνους παράγοντ	α την τροποπ από τους κινδ	οίηση της οδ δύνους που α	ηγίας
ITA	Italia		• •	gislativo 9 April	2	, , ,			
GBR	United Ki	nadom				ourth Edition 2020))		
EU	OEL EU	0	Directive (E 2017/2398; 2004/37/EC	U) 2019/1831; Directive (EU) ; Directive 200	Directive (EU) 2017/164; Dir	2019/130; Directive ective 2009/161/El ctive 98/24/EC; Directive	ve (EU) 2019 U; Directive 2	006/15/EC; [
	TLV-ACG	SIH	ACGIH 202	:1					
				Т	oluene				
Threshold Limit	Value								
Туре	Country	TWA/8ł mg/m3	ו ppm	STEL/15 mg/m3	ōmin ppm	Remarks / Ob	oservations		
TLV	BGR	150		300					
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200				
TLV	GRC	375	100	560	150				
VLEP	ITA	192	50			SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH		75,4	20						
Predicted no-effe	ect concenti	ration - PN	EC						
Normal value in	n fresh wate	r					0,68	mg/l	
Health - Derived	no-effect lev	vel - DNEL	/ DMEL						
	Effe	ects on con	sumers			Effects on work	ers		
Route of expos	sure Act loca		.cute ystemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin								VND	384 mg/kg

Reaction mass	of: 5-chloro-2	-methyl-4-is	othiazolin-3-o	one [EC no.	. 247-500-7]] and 2-methyl-2H-isothiazol-3-one [EC no	0.
220-23	89-6] (3:1)						
Threshold Limit	t Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	0,05				SKIN	



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SECTION 8. Exposure controls/personal protection/>>

1-isopropyl-2.2-dimethyltrimethylene diisobutyrate

		1-isopro	pyi-2,2-aimetn	yitrimetnyiene	alisobutyrate			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,014	mg/l	
Normal value in marir	ne water					0,0014	mg/l	
Normal value for fresl	h water sedi	ment				1,15	mg/kg	
Normal value for mar	ine water se	diment				0,115	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on worl	kers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	18,8 mg/kg bw/d				
Inhalation			VND	32,6 mg/m3			VND	110 mg/m3
Skin			VND	18,8 mg/kg bw/d			VND	31,2 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	Off-White
Odour	mild
Melting point / freezing point	Not available
Initial boiling point	Not available
Flammability	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Flash point	> 60 °C
Auto-ignition temperature	Not available
pH	8,5-9,5

Information

Concentration: 100 % Temperature: 25 °C



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SECTION 9. Physical and chemical pr	operties / >>		
Kinematic viscosity	1200-4000 mm2	/s	Method:Converting Formula from Dynamic Viscosity & Density Temperature: 25 °C
Dynamic viscosity	120-140 KU		Method:ASTM D 562-05 Temperature: 25 °C
Solubility	Not available		·
Partition coefficient: n-octanol/water	Not available		
Vapour pressure	Not available		
Density and/or relative density	1,25-1,43	g/cm3	Method:ISO 2811
			Temperature: 25 °C
Relative vapour density	Not available		
Particle characteristics	Not applicable		
9.2. Other information			
9.2.1. Information with regard to physical ha	azard classes		
Information not available			
9.2.2. Other safety characteristics			
Total solids (250°C / 482°F)	34,17 %		
VOC (Directive 2010/75/EU)	0.43 %		

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Toluene

TOLUENE: breaks down in sunlight.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Toluene

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents,strong bases,strong acids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toluene

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information

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CTION 11. Toxicologi	cal information / >>		
Information on likely route	s of exposure		
Information not available			
Delayed and immediate e	fects as well as chronic effects	from short and long-term exposure	
Information not available			
nteractive effects			
Information not available			
ACUTE TOXICITY			
ATE (Inhalation) of the mix ATE (Oral) of the mixture: ATE (Dermal) of the mixtu		Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)	
Toluene LD50 (Dermal): LD50 (Oral): LC50 (Inhalation v	vapours):	> 5000 mg/kg Rabbit > 5000 mg/kg Rat > 20 mg/l/4h Rat	
1,2-Benzisothiazo LD50 (Dermal): LD50 (Oral):	I-3(2H)-one	> 2000 mg/kg Rat 1150 mg/kg Mouse	
	5-chloro-2-methyl-4-isothiazoli	n-3-one [EC no. 247-500-7] and 2-methyl-2H-is	sothiazol-3-one [EC no. 220-239-6]
(3:1) LD50 (Dermal): STA (Dermal): LD50 (Oral):		1000 mg/kg Rat 50,001 mg/kg estimate from table 3.1.2 of A (figure used for calculation of the acute toxi 550 mg/kg Rat	
LC50 (Inhalation v	apours):	0,31 mg/l Rat	
1-isopropyl-2,2-dir LD50 (Dermal): LD50 (Oral): LC50 (Inhalation v	nethyltrimethylene diisobutyrate apours):	> 2000 mg/kg Rat > 2000 mg/kg Rat > 0,12 mg/l/6h Rat	
SKIN CORROSION / IRRI		.,	
Repeated exposure may c	ause skin dryness or cracking.		
SERIOUS EYE DAMAGE	, ,		
	cation criteria for this hazard cla	ISS	
RESPIRATORY OR SKIN			
1,2-Benzisothiazol-3(2H)-	o-2-methyl-4-isothiazolin-3-one one	[EC no. 247-500-7] and 2-methyl-2H-isothiazo Sebacate and Methyl 1,2,2,6,6 pentametyl-4-p	
Respiratory sensitization			
Information not available			
Skin sensitization			

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY



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SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 1200-4000 mm2/s

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny: 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Toluene LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

1,2-Benzisothiazol-3(2H)-one LC50 - for Fish EC50 - for Algae / Aquatic Plants > 1 mg/l/96h > 1 mg/l/48h > 100 mg/l/72h 2 mg/l Daphnia magna

0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)



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SECTION 12. Ecological information/>>	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 0,58 mg/l/96h 0,161 mg/l/72h 0,032 mg/l 96h
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	> 7,49 mg/l/72h > 6 mg/l > 1,46 mg/l
12.2. Persistence and degradability	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 NOT rapidly degradable 12.3. Bioaccumulative potential	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 30 %, Exposure time: 28 d, OECD Test Guideline 301B
Toluene BCF	8,32
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: n-octanol/water BCF	4,04 Log Kow 1,95
12.4. Mobility in soil	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: soil/water	2,69
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does not	t contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable



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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category	- Directive 2012/18	<u>/EU:</u> N	None	
Restrictions relating	ng to the product o	<u>r contained substances pu</u>	oursuant to Annex XVII to EC Regulation 1907/20	006
Product				
Point	40			
Contained subst	ance			
Point	75			
Point	48	Toluene		
		REACH Reg.: 01-2	2119471310-51	
<u>Regulation (EU) 2</u> Not applicable	<u>019/1148 - on the ı</u>	marketing and use of expl	losives precursors	

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Repr. 2	Reproductive toxicity, category 2



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SECTION 16. Other information ... / >>

Acute Tox. 3Acute tox.Asp. Tox. 1AspirationSTOT RE 2Specific taSkin Corr. 1CSkin corroEye Dam. 1Serious eSkin Sens. 1ASkin sensSTOT SE 3Specific taAquatic Acute 1HazardouAquatic Chronic 1HazardouH225Highly flarH361dSuspectedH301Fatal in coH303Fatal if infH304May be faH373May causH314Causes soH317May causH336May causH400Very toxicH410Very toxicEUH066RepeatedEUH071Corrosive	
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LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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SECTION 16. Other information ... / >>

- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 03 / 04 / 05 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.



KRAFT 4 SEASONS ELASTIC Base P

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Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

ECTION 1. Identif		
1. Product identifier		
Code:		CK33102P000
Product name		KRAFT 4 SEASONS ELASTIC Base P
i loudet hame		RIAL 14 SLAGONG LLAG NO BASE P
2. Relevant identified us	es of the substance or i	mixture and uses advised against
Intended use		Elastomeric waterproofing paint for exterior walls
3. Details of the supplie	r of the safety data shee	st
Name		DRUCKFARBEN HELLAS SA
Full address		Megaridos Ave
District and Country		193 00 Aspropyrgos (Attiki)
		Greece
		Tel. +30 210 5519500
		Fax +30 210 5519501
e-mail address of the co	motont porson	Tax +30 210 3519301
responsible for the Safet		psafety@druckfarben.gr
	-	paretyeuruckiaiben.gi
4. Emergency telephone		
For urgent inquiries refer	to	+30 210 7793777
ECTION 2. Hazar	ds identification	
1. Classification of the s	ubstance or mixture	
However, since the prod	uct contains hazardous su	Int to the provisions set forth in EC Regulation 1272/2008 (CLP). ubstances in concentrations such as to be declared in section no. 3, it requires a safety data EU) Regulation 2020/878.
However, since the prod	uct contains hazardous su	
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However, since the prod sheet with appropriate in Hazard classification and 2. Label elements Hazard labelling pursuar Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208 Precautionary statement P501 P102 P233	uct contains hazardous su formation, compliant to (E d indication: d to EC Regulation 1272/2 Repeated exposure ma Safety data sheet avail Contains: Re 2- 1, Re May produce an allergi s: Dispose of contents an national / international Keep out of reach of ch Keep container tightly of If medical advice is need	ubstances in concentrations such as to be declared in section no. 3, it requires a safety data EU) Regulation 2020/878. 2008 (CLP) and subsequent amendments and supplements. ay cause skin dryness or cracking. lable on request. eaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 2-Benzisothiazol-3(2H)-one eaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 entametyl-4-piperidyl Sebacate ic reaction.



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SECTION 2. Hazards identification ... / >>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product contains substances with endocrine disrupting properties in concentration $\ge 0.1\%$. 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Cone	c. %	Classification (EC) 1272/2008 (CLP)
1-isopropyl-2	,2-dimethyltrimethy	/lene diisobutyr	ate
CAS	6846-50-0	0,5 ≤ x < 1	Repr. 2 H361d
EC	229-934-9		
INDEX			
REACH Reg.	01-2119451093-4	7-0000	
Toluene	100.00.0	0.4	
CAS	108-88-3	0 ≤ x < 0,5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC	203-625-9		
INDEX	601-021-00-3		
REACH Reg.			
			piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate
CAS	1065336-91-5	0 ≤ x < 0,1	Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	915-687-0		
INDEX			
REACH Reg.		0-00XX	
	niazol-3(2H)-one		
CAS	2634-33-5	$0 \le x \le 0.05$	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
50			Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
	613-088-00-6	0	LD50 Oral: 1150 , STA Inhalation mists/powders: 0,051 mg/l
REACH Reg.			
	s of: 5-chioro-2-m	ethyl-4-isothiaz	olin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3:1) CAS	55965-84-9	$0 \le x < 0.001$	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C
CAS	33903-04-9	0 3 X < 0,001	H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
INDEX	613-167-00-5		STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory Referer	nces:								
BGR	България			И С ЕКСПОЗИ)3 Г. ЗА ЗАЩИТА ИЧНИ АГЕНТИ П		•	
DEU	Deutschla	nd	Technische Kurzzeitwei	n Regeln für G	BAT-Werte-List	RGS 900) - Liste d te 2020, Ständige tteilung 56	•	-	
GRC	Ελλάδα		Π.Δ. 26/202 οδηγιών 20 2004/37/Εκ	20 (ΦΕΚ 50/Α` 17/2398/ΕΕ, 20 ΄ "σχετικά με τr	6.3.2020) Εναι 019/130/ΕΕ κα γν προστασία τ	ομόνιση της ελλην ι 2019/983/ΕΕ «γιι ων εργαζομένων ιγόνους παράγοντ	α την τροποπ από τους κινδ	οίηση της οδ δύνους που α	ηγίας
ITA	Italia			gislativo 9 April		in a part of the p			
GBR	United Kin	igdom				ourth Edition 2020	D)		
EU	OEL EU	-	2017/2398;	Directive (EU)	2017/164; Dire	2019/130; Directi ective 2009/161/E tive 98/24/EC; Dir	U; Directive 2	006/15/EC; [
	TLV-ACG	IH	ACGIH 202	1					
				Т	oluene				
Threshold Limit V	/alue				olucile				
Туре	Country	TWA/8I mg/m3	n ppm	STEL/15 mg/m3	ōmin ppm	Remarks / Ob	oservations		
TLV	BGR	150		300					
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200				
TLV	GRC	375	100	560	150				
VLEP	ITA	192	50			SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH	at a a maan tw	75,4	20						
Predicted no-effe			EC				0,68	mg/l	
Health - Derived r							0,00	iliy/i	
Health - Derived I		cts on con				Effects on work	ers		
Route of expos		te A	cute ystemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						384 mg/m2	384	192	192 mg/m2
Skin						mg/m3	mg/m3	mg/m3 VND	mg/m3 384 mg/kg

Reaction mass	of: 5-chloro-2	-methyl-4-is	othiazolin-	3-one [EC no. 247-500-7]	and 2-methyl-2H-isothiazol-3-one [EC no.	
220-2	39-6] (3:1)					
Threshold Lim	it Value					
Туре	Country	TWA/8h		STEL/15min	Remarks / Observations	
		mg/m3	ppm	mg/m3 ppm		
AGW	DEU	0,05			SKIN	



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SECTION 8. Exposure controls/personal protection/>>

1-isopropyl-2.2-dimethyltrimethylene diisobutyrate

		i-isopro	pyi-z,z-uimem	yiu illieuryiene (unsobulyrale			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,014	mg/l	
Normal value in marin	ne water					0,0014	mg/l	
Normal value for fres	h water sedi	ment				1,15	mg/kg	
Normal value for mar	ine water se	diment				0,115	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on worl	kers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	18,8 mg/kg bw/d				
Inhalation			VND	32,6 mg/m3			VND	110 mg/m3
Skin			VND	18,8 mg/kg bw/d			VND	31,2 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit		Value liquid Off-White mild Not available Not available Not available Not available
Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature pH	>	Not available Not available 60 °C Not available 8,5-9,5

Information

Concentration: 100 % Temperature: 25 °C



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ECTION 9. Physical and chemical pro	·		
Kinematic viscosity	1200-4000 mr	m2/s	Method:Converting Formula from Dynamic Viscosity & Density Temperature: 25 °C
Dynamic viscosity	100-140 KU		Method:ASTM D 562-05 Temperature: 25 °C
Solubility	Not available		
Partition coefficient: n-octanol/water	Not available		
Vapour pressure	Not available		
Density and/or relative density	1,25-1,43	g/cm3	Method:ISO 2811
			Temperature: 25 °C
Relative vapour density	Not available		
Particle characteristics	Not applicable	Э	
9.2. Other information			
9.2.1. Information with regard to physical haz	zard classes		
Information not available			
9.2.2. Other safety characteristics			
Total solids (250°C / 482°F)	41,17 %		
VOC (Directive 2010/75/EU)	0,44 %		

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Toluene

TOLUENE: breaks down in sunlight.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Toluene

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents,strong bases,strong acids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toluene

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information



DRUCKFARBEN HELLAS SA Revision nr.3 Dated 16/03/2022 Printed on 17/03/2022 Page n. 7 / 12 **KRAFT 4 SEASONS ELASTIC Base P** Replaced revision:2 (Dated 25/02/2022) SECTION 11. Toxicological information .../>> Information on likely routes of exposure Information not available Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component) Toluene LD50 (Dermal): > 5000 mg/kg Rabbit > 5000 mg/kg Rat LD50 (Oral): LC50 (Inhalation vapours): > 20 mg/l/4h Rat 1,2-Benzisothiazol-3(2H)-one LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): 1150 mg/kg Mouse Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)LD50 (Dermal): 1000 mg/kg Rat 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal): (figure used for calculation of the acute toxicity estimate of the mixture) LD50 (Oral): 550 mg/kg Rat LC50 (Inhalation vapours): 0,31 mg/l Rat 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation vapours): > 0,12 mg/l/6h Rat SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 1,2-Benzisothiazol-3(2H)-one

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

ΕN



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SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 1200-4000 mm2/s

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny: 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Toluene LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

1,2-Benzisothiazol-3(2H)-one LC50 - for Fish EC50 - for Algae / Aquatic Plants > 1 mg/l/96h > 1 mg/l/48h > 100 mg/l/72h 2 mg/l Daphnia magna

0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)



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SECTION 12. Ecological information / >>	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	8-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 0,58 mg/l/96h 0,161 mg/l/72h 0,032 mg/l 96h
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	> 7,49 mg/l/72h > 6 mg/l > 1,46 mg/l
12.2. Persistence and degradability	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 NOT rapidly degradable 12.3. Bioaccumulative potential	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 30 %, Exposure time: 28 d, OECD Test Guideline 301B
Toluene BCF	8,32
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: n-octanol/water BCF	4,04 Log Kow 1,95
12.4. Mobility in soil	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: soil/water	2,69
12.5. Results of PBT and vPvB assessment	

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable



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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

ive 2012/18/EU:		None	
e product or cont	tained substances	pursuant to Annex XVII to	EC Regulation 1907/2006
40			
75			
48	Toluene		
	REACH Reg.: 01	-2119471310-51	
	-		
	e product or con 40 75	40 75 48 Toluene	e product or contained substances pursuant to Annex XVII to 40 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors Not applicable

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Repr. 2	Reproductive toxicity, category 2



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SECTION 16. Other information .../>>

Acute Tox. 2 Acute Tox. 3 Asp. Tox. 1 STOT RE 2 Skin Corr. 1C Eye Dam. 1 Skin Sens. 1A STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1 H225 H361d H361f H310 H304 H373 H314 H373 H314 H318 H317 H336 H400 H410 EUH066 EUH071 EUH210	Acute toxicity, category 2 Acute toxicity, category 3 Aspiration hazard, category 1 Specific target organ toxicity - repeated exposure, category 2 Skin corrosion, category 1C Serious eye damage, category 1 Skin sensitization, category 1A Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Highly flammable liquid and vapour. Suspected of damaging the unborn child. Suspected of damaging fertility. Fatal in contact with skin. Fatal if inhaled. Toxic if swallowed. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking. Corrosive to the respiratory tract. Safety data sheet available on request.
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LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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SECTION 16. Other information ... / >>

- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03 / 09 / 11.



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Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

.1. Product identifier			xture and of the c	
Code:		CK33102T00		_
Product name		KRAFT 4 SE	ASONS ELASTIC Base	T
2. Relevant identified u	ses of the substance or	r mixture and us	es advised against	
Intended use		Elastomeric	waterproofing paint for	exterior walls
3. Details of the supplie	er of the safety data she	et		
Name			BEN HELLAS SA	
Full address District and Country		Megaridos A 193 00	Ave Aspropyrgos	(Attiki)
			Greece	(,)
		Tel. Fox	+30 210 5519500	
e-mail address of the co	ompetent person	Fax	+30 210 5519501	
responsible for the Safe	· ·	psafety@dru	uckfarben.gr	
4. Emergency telephon	e number			
For urgent inquiries refe	er to	+30 210 7793	3777	
ECTION 2. Hazar	ds identification			
1. Classification of the	substance or mixture			
sheet with appropriate in Hazard classification an	nformation, compliant to (nd indication: -	(EU) Regulation 2	2020/878.	
2. Label elements				
	nt to EC Regulation 1272	2/2008 (CLP) and	subsequent amendments	and supplements.
	nt to EC Regulation 1272 	2/2008 (CLP) and	subsequent amendments	and supplements.
Hazard labelling pursua	nt to EC Regulation 1272 	2/2008 (CLP) and	subsequent amendments	and supplements.
Hazard labelling pursua Hazard pictograms:	nt to EC Regulation 1272 	/2008 (CLP) and	subsequent amendments	and supplements.
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066	 Repeated exposure m	nay cause skin dr	yness or cracking.	and supplements.
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	 Repeated exposure m Safety data sheet ava	nay cause skin dr illable on request	yness or cracking.	
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066	 Repeated exposure m Safety data sheet ava Contains: F	nay cause skin dr ailable on request Reaction mass of	yness or cracking.	niazolin-3-one [EC no. 247-500-7] and
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	 Repeated exposure m Safety data sheet ava Contains: F	nay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo	yness or cracking. 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 il-3(2H)-one	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1)
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	 Repeated exposure m Safety data sheet ava Contains: F 2 1 1	nay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of	yness or cracking. : 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 il-3(2H)-one : Bis(1,2,2,6,6- pentameth	niazolin-3-one [EC no. 247-500-7] and
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210	 Repeated exposure m Safety data sheet ava Contains: F 2 1 F	hay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of pentametyl-4-pipe	yness or cracking. : 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 il-3(2H)-one : Bis(1,2,2,6,6- pentameth	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1)
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208	 Repeated exposure m Safety data sheet ava Contains: F 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of pentametyl-4-pipe	yness or cracking. : 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 il-3(2H)-one : Bis(1,2,2,6,6- pentameth	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1)
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208	 Repeated exposure m Safety data sheet ava Contains: F 2 1 F May produce an allers	hay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of pentametyl-4-pipe gic reaction.	yness or cracking. 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 I-3(2H)-one Bis(1,2,2,6,6- pentameth ridyl Sebacate	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1) yl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6
Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208	 Repeated exposure m Safety data sheet ava Contains: F 2 1 F May produce an allers	nay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of pentametyl-4-pipe gic reaction.	yness or cracking. 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 I-3(2H)-one Bis(1,2,2,6,6- pentameth ridyl Sebacate	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1)
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208 Precautionary statemen P501 P102	 Repeated exposure m Safety data sheet ava Contains: F 2 1 1 5 May produce an allers May produce an allers Its: Dispose of contents a national / internationa Keep out of reach of o	hay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of bentametyl-4-pipe gic reaction. and container to a I regulations. children.	yness or cracking. 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 I-3(2H)-one Bis(1,2,2,6,6- pentameth ridyl Sebacate	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1) yl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6
Hazard labelling pursua Hazard pictograms: Signal words: Hazard statements: EUH066 EUH210 EUH208	 Repeated exposure m Safety data sheet ava Contains: F 2 1 May produce an allers May produce an allers Ints: Dispose of contents a national / internationa Keep out of reach of o Keep container tightly	hay cause skin dr ailable on request Reaction mass of 2-methyl-2H-isoth 1,2-Benzisothiazo Reaction mass of bentametyl-4-pipe gic reaction. and container to a l regulations. children.	yness or cracking. 5-chloro-2-methyl-4-isoth iazol-3-one [EC no. 220-2 I-3(2H)-one Bis(1,2,2,6,6- pentameth ridyl Sebacate	niazolin-3-one [EC no. 247-500-7] and 39-6] (3:1) yl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 al plant or recycled in accordance with local /



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SECTION 2. Hazards identification .../>>

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product contains substances with endocrine disrupting properties in concentration $\ge 0.1\%$. 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Con	c. %	Classification (EC) 1272/2008 (CLP)
1-isopropyl-2	,2-dimethyltrimethy	/lene diisobuty	ate
CAS	6846-50-0	0,5 ≤ x < 1	Repr. 2 H361d
EC	229-934-9		
INDEX			
REACH Reg.	01-2119451093-4	7-0000	
Toluene			
CAS	108-88-3	0 ≤ x < 0,5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC	203-625-9		
INDEX	601-021-00-3		
REACH Reg.		-	
		• •	-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate
CAS	1065336-91-5	0 ≤ x < 0,1	Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	915-687-0		
INDEX			
REACH Reg.		0-00XX	
	niazol-3(2H)-one		
CAS	2634-33-5	0 ≤ x < 0,05	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,
			Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC	220-120-9		Skin Sens. 1 H317: ≥ 0,05%
INDEX	613-088-00-6		LD50 Oral: 1150 , STA Inhalation mists/powders: 0,051 mg/l
REACH Reg.			
Reaction mas (3:1)	ss of: 5-chloro-2-m	ethyl-4-isothiaz	olin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
CAS	55965-84-9	0 ≤ x < 0,001	5 Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
INDEX	613-167-00-5		STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,501 mg/l

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed



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SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)



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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory Referer	nces:									
BGR	България		СВЪРЗАНІ	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)						
DEU	Deutschland		Technische Kurzzeitwei	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56						
GRC	Ελλάδα		Π.Δ. 26/202 οδηγιών 20 2004/37/Εκ	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ''σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία''»						
ITA	Italia			gislativo 9 April						
GBR	United Ki	ngdom				ourth Edition 202	0)			
EU	OEL EU	-	2017/2398; 2004/37/EC	Directive (EU) ; Directive 200	2017/164; Dire	2019/130; Directi ective 2009/161/E tive 98/24/EC; Dir	U; Directive 2	006/15/EC; [
	TLV-ACG	ЯН	ACGIH 202	:1						
				T	oluene					
Threshold Limit V	/alue									
Туре	Country	TWA/8 mg/m3		STEL/15 mg/m3	ōmin ppm	Remarks / Ol	oservations			
TLV	BGR	150		300						
AGW	DEU	190	50	760	200	SKIN				
MAK	DEU	190	50	760	200					
TLV	GRC	375	100	560	150					
VLEP	ITA	192	50			SKIN				
WEL	GBR	191	50	384	100	SKIN				
OEL	EU	192	50	384	100	SKIN				
TLV-ACGIH Predicted no-effe	ot oonoontr	75,4	20							
Normal value in			NEC				0,68	mg/l		
Health - Derived r							0,00	ilig/i		
ficalar Berricar		ects on co				Effects on worl	kers			
Route of expos		ute .	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation						384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3	
Skin						-	-	VND	384 mg/kg	

Reaction mass	of: 5-chloro-2	-methyl-4-is	othiazolin-3-	one [EC no. 247-500	-7] and 2-methyl-2H-isothiazol-3-one [EC no.
220-2	39-6] (3:1)				
Threshold Limi	it Value				
Туре	Country	TWA/8h		STEL/15min	Remarks / Observations
		mg/m3	ppm	mg/m3 ppm	
AGW	DEU	0,05			SKIN



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SECTION 8. Exposure controls/personal protection/>>

1-isopropyl-2 2-dimethyltrimethylene diisobutyrate

		1-Isopro	pyi-2,2-aimeth	yitrimetnyiene (alisobutyrate			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,014	mg/l	
Normal value in marine water						0,0014	mg/l	
Normal value for fresh water sediment						1,15	mg/kg	
Normal value for marine water sediment						0,115	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on wor	kers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		-	VND	18,8 mg/kg bw/d		-		
Inhalation			VND	32,6 mg/m3			VND	110 mg/m3
Skin			VND	18,8 mg/kg bw/d			VND	31,2 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature	Value liquid Off-White mild Not available Not available Not available Not available > 60 °C Not available
Auto-ignition temperature pH	

Information

Concentration: 100 % Temperature: 25 °C



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SECTION 9. Physical and chemical prop	perties / >>	
Kinematic viscosity	1200-4000 mm2/s	Method:Converting Formula from Dynamic Viscosity & Density Temperature: 25 °C
Dynamic viscosity	120-140 KU	Method:ASTM D 562-05 Temperature: 25 °C
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1,25-1,43 g/cm3	Method:ISO 2811
		Temperature: 25 °C
Relative vapour density	Not available	
Particle characteristics	Not applicable	
9.2. Other information		
9.2.1. Information with regard to physical haz	ard classes	
Information not available		
9.2.2. Other safety characteristics		
Total solids (250°C / 482°F)	39,44 %	
VOC (Directive 2010/75/EU)	0,46 %	
SECTION 10. Stability and react	ivity	

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Toluene

TOLUENE: breaks down in sunlight.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Toluene

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate Avoid contact with: strong oxidising agents,strong bases,strong acids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toluene

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

Metabolism, toxicokinetics, mechanism of action and other information



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KRAFT 4 SEASONS ELASTIC Base T Replaced revision:2 (Dated 21/07/2017) SECTION 11. Toxicological information .../>> Information on likely routes of exposure Information not available Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: Not classified (no significant component) Toluene LD50 (Dermal): > 5000 mg/kg Rabbit > 5000 mg/kg Rat LD50 (Oral): LC50 (Inhalation vapours): > 20 mg/l/4h Rat 1,2-Benzisothiazol-3(2H)-one LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): 1150 mg/kg Mouse Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)LD50 (Dermal): 1000 mg/kg Rat 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal): (figure used for calculation of the acute toxicity estimate of the mixture) LD50 (Oral): 550 mg/kg Rat LC50 (Inhalation vapours): 0,31 mg/l Rat 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation vapours): > 0,12 mg/l/6h Rat SKIN CORROSION / IRRITATION Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE / IRRITATION Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 1,2-Benzisothiazol-3(2H)-one

Reaction mass of: Bis(1,2,2,6,6- pentamethyl-4-piperidyl) Sebacate and Methyl 1,2,2,6,6 pentametyl-4-piperidyl Sebacate

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY



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SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 1200-4000 mm2/s

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny: 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Toluene LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

1,2-Benzisothiazol-3(2H)-one LC50 - for Fish EC50 - for Algae / Aquatic Plants > 1 mg/l/96h > 1 mg/l/48h > 100 mg/l/72h 2 mg/l Daphnia magna

0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)



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SECTION 12. Ecological information / >>	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 0,58 mg/l/96h 0,161 mg/l/72h 0,032 mg/l 96h
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	> 7,49 mg/l/72h > 6 mg/l > 1,46 mg/l
12.2. Persistence and degradability	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3 NOT rapidly degradable 12.3. Bioaccumulative potential	3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) 30 %, Exposure time: 28 d, OECD Test Guideline 301B
Toluene BCF	8,32
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: n-octanol/water BCF	4,04 Log Kow 1,95
12.4. Mobility in soil	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate Partition coefficient: soil/water	2,69
12.5. Results of PBT and vPvB assessment	

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

@EPY 11.1.2 - SDS 1004.14



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SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category	- Directive 2012/18	EU: None	
Restrictions relatir	ng to the product o	contained substances pursuant to Annex XVII to EC Regulation 1907/2	2006
Product			
Point	40		
Contained subst	ance		
Point	75		
Point	48	Toluene	
		REACH Reg.: 01-2119471310-51	
<u>Regulation (EU) 2</u> Not applicable	<u>019/1148 - on the r</u>	narketing and use of explosives precursors	
	ndidate List (Art. 59 vailable data, the pr	<u>REACH)</u> oduct does not contain any SVHC in percentage ≥ than 0,1%.	
<u>Substances subje</u> None	ct to authorisation	Annex XIV REACH)	

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None

<u>Substances subject to the Rotterdam Convention:</u> None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Repr. 2	Reproductive toxicity, category 2



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SECTION 16. Other information ... / >>

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Skin Sens. 1A	Skin sensitization, category 1A
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, actuate toxicity, category 1
H225	Highly flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes serious eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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SECTION 16. Other information ...

- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 02 / 03 / 04 / 05 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.