



KRAFT Multiprimer Grey

Revision nr.1 Dated 27/07/2022 First compilation Printed on 27/07/2022 Page n. 1 / 13

Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: CK321704225

Product name KRAFT Multiprimer Grey

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Acrylic Multi-surface Water-based Primer

1.3. Details of the supplier of the safety data sheet

Name DRUCKFARBEN HELLAS SA Full address MEGARIDOS AVENUE

District and Country 19300 ASPROPYRGOS (ATTIKI)

GREECE

Tel. +30 210 5519500 Fax +30 210 5519501

e-mail address of the competent person

responsible for the Safety Data Sheet (KRAFT:) psafety@druckfarben.gr / (DF_INKS:)

vapostolodis@druckfarbengroup.com

1.4. Emergency telephone number

For urgent inquiries refer to 0030-210-7793777

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects. toxicity, category 3

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

EUH208 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

Rheology Modifier Benzothiazole-2-thiol Aminopropyltriethoxysilane

May produce an allergic reaction.

Precautionary statements:

P501 Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local / national /

international regulations.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P273 Avoid release to the environment.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor, if you feel unwell.



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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 ≥ 0,1%:

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

TITANIUM DIOXIDE

CAS 13463-67-7 $9 \le x < 30$

EC 236-675-5

INDEX

REACH Reg. 01-2119489379-17-xxxx

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

CAS 6846-50-0 $1 \le x < 3$ Repr. 2 H361d

EC 229-934-9

INDEX

REACH Reg. 01-2119451093-47-0000

Benzothiazole-2-thiol

CAS 149-30-4 0,25 ≤ x < 0,5 Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 205-736-8 INDEX 613-108-00-3 Aminopropyltriethoxysilane

CAS 919-30-2 0 ≤ x < 0,5 Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317

EC 213-048-4 LD50 Oral: 1490 mg/kg

INDEX 612-108-00-0 REACH Reg. 01-2119480479-24

Rheology Modifier

CAS $0 \le x < 0.5$ Skin Sens. 1 H317 EC

INDEX

1,2-Benzisothiazol-3(2H)-one

CAS 2634-33-5 $0 \le x < 0.05$ 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. 01-2120761540-60-xxxx

ETHANOLAMINE

CAS 141-43-5 $0 \le x < 0.5$ Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B

H314, Eye Dam. 1 H318, STOT SE 3 H335

EC 205-483-3 STOT SE 3 H335: ≥ 5%

INDEX 603-030-00-8 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation mists/powders: 1,5 mg/l, STA Inhalation vapours: 11 mg/l

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)

CAS 55965-84-9 0 ≤ x < 0,0015 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 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

REACH Reg. 01-2120764691-48

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.



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SECTION 4. First aid measures .../>>

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

Information not available

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.



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SECTION 7. Handling and storage

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. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR България 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.)

Deutschland Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und DEU

Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung

gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56

GRC Ελλάδα 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 Decreto Legislativo 9 Aprile 2008, n.81

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru ROU România

modificarea și completarea hotărârii guvernului nr. 1.093/2006

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) EU OEL EU

2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive

2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive

91/322/FFC

TLV-ACGIH ACGIH 2021

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)

Threshold Limit Value Country TWA/8h STEL/15min Remarks / Observations Type mg/m3 ppm mg/m3 DEU SKIN AGW 0,05

			100 " "					
			pyl-2,2-dimeth	yltrimethylene	diisobutyrate			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,014	mg/l	
Normal value in mari	ne water				0,0014	mg/l		
Normal value for fres	h water sed	iment			1,15	mg/kg		
Normal value for mar	ine water se	ediment		0,115	mg/kg			
lealth - Derived no-eff	ect level - [ONEL / DMEL						
	Effects o	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral			VND	18,8				
				mg/kg bw/d				
Inhalation			VND	32,6			VND	110
				mg/m3				mg/m3
Skin			VND	18,8			VND	31,2
				mg/kg bw/d				mg/kg
								bw/d



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ECTION 8. Exposure controls/personal protection/>>

	kposuic conti	ois/persori	ui pioteetio								
				Benzoth	Benzothiazole-2-thiol						
Threshold Lin	nit Value										
Type	Country	y TWA/8h		STEL/15	min	Remarks / Observations	ervations				
		mg/m3	ppm	mg/m3	ppm						
AGW	DEU	4									
Predicted no-	effect concentra	ation - PNEC	;								
Normal val	ue in fresh water					0,0041	mg/l				
Normal value in marine water					0,00041	mg/l					
Normal val	ue for fresh wate	r sediment				0,147	mg/kg/d				

			Aminoprop	yltriethoxysilar	ne			
Predicted no-effect cor	ncentration	- PNEC		,				
Normal value in fresh	water					0,33	mg/l	
Normal value in marir	ne water					0,033	mg/l	
Normal value for fres	h water sedi	ment				0,26	mg/kg/d	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	consumers			Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral	VND	5	VND	5				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	VND	17,4	VND	17	VND	59	VND	59
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	5	VND	5	VND	8,3	VND	8,3
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d

				TITANIL	JM DIOXID	E
Threshold Limit	Value					
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	10				RESP
TLV	GRC		10			
TLV	ROU	10		15		
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				

				ETHA	NOLAMINE		
Threshold Limit	Value						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2,5	1	7,6	3	SKIN	
AGW	DEU	0,5	0,2	0,5	0,2	SKIN	
MAK	DEU	0,51	0,2	0,51	0,2		
TLV	GRC	2,5	1	7,6	3		
VLEP	ITA	2,5	1	7,6	3	SKIN	
TLV	ROU	2,5	1	7,6	3	SKIN	
WEL	GBR	2,5	1	7,6	3	SKIN	
OEL	EU	2,5	1	7,6	3	SKIN	
TLV-ACGIH		7,5	3	15	6		

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

 $\label{protective} \mbox{ Personal protective equipment must be CE marked, showing that it complies with applicable standards.}$

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





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SECTION 8. Exposure controls/personal protection/

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 A 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance liquid

Colour grey

Odour characteristic of solvent

Melting point / freezing point not available
Initial boiling point > 100 °C
Flammability not applicable
Lower explosive limit not available
Upper explosive limit not available
Flash point 100 °C
Auto-ignition temperature not available

Decomposition temperature not available pH 8,5-9,5 Concentration: 100 %

Temperature: 25 °C
Kinematic viscosity 100 KU Method: ASTM D 562-05

Dynamic viscosity Temperature: 25 °C Method:Converting Formula from Dynamic

Viscosity & Density
Temperature: 25 °C

Solubility partially soluble Partition coefficient: n-octanol/water not available

Vapour pressure not available

Density and/or relative density 1,22±0,02 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 hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 53,97 %
Explosive properties not applicable
Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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



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SECTION 10. Stability and reactivity .../>>

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.

ETHANOLAMINE

May react dangerously with: acrylonitrile,chloroepoxypropane,chlorosulphuric acid,hydrogen chloride,iron-sulphur compounds,acetic acid,acetic anhydride,mesityl oxide,nitric acid,sulphuric acid,strong acids,vinyl acetate,cellulose nitrate.

10.4. Conditions to avoid

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

ETHANOLAMINE

Avoid exposure to: air, sources of heat.

10.5. Incompatible materials

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

10.6. Hazardous decomposition products

ETHANOLAMINE

May develop: nitric oxide,carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)

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

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



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SECTION 11. Toxicological information ... / >>

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

Benzothiazole-2-thiol

LD50 (Dermal): > 7940 mg/kg Rabbit LD50 (Oral): 3800 mg/kg Rat

Aminopropyltriethoxysilane

 LD50 (Dermal):
 4076 mg/kg rabbit

 LD50 (Oral):
 1490 mg/kg rat

TITANIUM DIOXIDE

LD50 (Oral): > 10000 mg/kg Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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

Rheology Modifier Benzothiazole-2-thiol Aminopropyltriethoxysilane

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

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



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SECTION 11. Toxicological information .../>>

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

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

1,2-Benzisothiazol-3(2H)-one

LC50 - for Fish 0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) EC50 - for Algae / Aquatic Plants 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)

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)

 LC50 - for Fish
 0,58 mg/l/96h

 EC50 - for Algae / Aquatic Plants
 0,161 mg/l/72h

 Chronic NOEC for Algae / Aquatic Plants
 0,032 mg/l 96h

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

EC50 - for Algae / Aquatic Plants > 7,49 mg/l/72h Chronic NOEC for Fish > 6 mg/l Chronic NOEC for Crustacea > 1,46 mg/l

Benzothiazole-2-thiol

 LC50 - for Fish
 0,11 mg/l/96h

 EC50 - for Crustacea
 4,1 mg/l/48h

 Chronic NOEC for Fish
 0,041 mg/l

 Chronic NOEC for Crustacea
 0,08 mg/l

Aminopropyltriethoxysilane

 LC50 - for Fish
 > 934 mg/l/96h

 EC50 - for Crustacea
 331 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 1000 mg/l/72h

 Chronic NOEC for Fish
 1,3 mg/l

12.2. Persistence and degradability

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) NOT rapidly degradable 30 %, Exposure time: 28 d, OECD Test Guideline 301B



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SECTION 12. Ecological information .../>>

Benzothiazole-2-thiol

Degradability: information not available

Aminopropyltriethoxysilane

Degradability: information not available

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

ETHANOLAMINE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Partition coefficient: n-octanol/water 4,04 Log Kow BCF 1,95

ETHANOL AMINE

Partition coefficient: n-octanol/water -2,3

12.4. Mobility in soil

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Partition coefficient: soil/water 2,69

ETHANOLAMINE

Partition coefficient: soil/water -0,5646

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 ≥ 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. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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



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SECTION 14. Transport information ... / >>

14.2. UN proper shipping name

not applicable

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 relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Point 3 - 40

Contained substance

Point 75

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

Substances in Candidate List (Art. 59 REACH)

Octamethylcyclotetrasiloxane

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.





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SECTION 16. Other information

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

Repr. 2 Reproductive toxicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H361d Suspected of damaging the unborn child.

H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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
- 6. Regulation (EU) 616/2012 (III Atp. CLP) of the European Paniament
- 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





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Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: CK321700001

Product name KRAFT Multiprimer White

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Acrylic Multi-surface Water-based Primer

1.3. Details of the supplier of the safety data sheet

Name DRUCKFARBEN HELLAS SA Full address MEGARIDOS AVENUE

District and Country 19300 ASPROPYRGOS (ATTIKI)

GREECE

Tel. +30 210 5519500 Fax +30 210 5519501

e-mail address of the competent person

responsible for the Safety Data Sheet (KRAFT:) psafety@druckfarben.gr / (DF_INKS:)

vapostolodis@druckfarbengroup.com

1.4. Emergency telephone number

For urgent inquiries refer to 0030-210-7793777

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic H412 Harmful to aquatic life with long lasting effects. toxicity, category 3

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

EUH208 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

Rheology Modifier Benzothiazole-2-thiol Aminopropyltriethoxysilane

May produce an allergic reaction.

Precautionary statements:

P501 Dispose of contents / container to an approved waste disposal plant or recycled in accordance with local / national /

international regulations.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P273 Avoid release to the environment.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor, if you feel unwell.



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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 ≥ 0,1%:

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

TITANIUM DIOXIDE

CAS 13463-67-7 $9 \le x < 30$

EC 236-675-5

INDEX

REACH Reg. 01-2119489379-17-xxxx

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

CAS 6846-50-0 $1 \le x < 3$ Repr. 2 H361d

EC 229-934-9

INDEX

REACH Reg. 01-2119451093-47-0000

Benzothiazole-2-thiol

CAS 149-30-4 0,25 ≤ x < 0,5 Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 205-736-8 INDEX 613-108-00-3 Aminopropyltriethoxysilane

CAS 919-30-2 0 ≤ x < 0,5 Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317

EC 213-048-4 LD50 Oral: 1490 mg/kg

INDEX 612-108-00-0

REACH Reg. 01-2119480479-24

Rheology Modifier

CAS $0 \le x < 0.5$ Skin Sens. 1 H317 EC

INDEX

1,2-Benzisothiazol-3(2H)-one

CAS 2634-33-5 $0 \le x < 0.05$ 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. 01-2120761540-60-xxxx

ETHANOLAMINE

CAS 141-43-5 $0 \le x < 0.5$ Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B

H314, Eye Dam. 1 H318, STOT SE 3 H335

EC 205-483-3 STOT SE 3 H335: ≥ 5%

INDEX 603-030-00-8 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation

mists/powders: 1,5 mg/l, STA Inhalation vapours: 11 mg/l

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)

EC

INDEX

CAS 55965-84-9 0 ≤ x < 0,0015 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

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%

STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours:

0,501 mg/l

REACH Reg. 01-2120764691-48

611-341-5

613-167-00-5

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.



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SECTION 4. First aid measures .../>>

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

Information not available

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.



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SECTION 7. Handling and storage .../>>

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. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

BGR България 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 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. 26/2020 (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 Decreto Legislativo 9 Aprile 2008, n.81

ROU România Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru

modificarea și completarea hotărârii guvernului nr. 1.093/2006

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

EU OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)

2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive

SKIN

2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive

91/322/EEC.

TLV-ACGIH ACGIH 2021

0,05

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)

AGW

DEU

Threshold Limit Value

Type Country TWA/8h STEL/15min Remarks / Observations

mg/m3 ppm mg/m3 ppm

		1-isopro	pyl-2,2-dimeth	yltrimethylene	diisobutyrate			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	n water					0,014	mg/l	
Normal value in mari	ne water				0,0014	mg/l		
Normal value for fres	h water sed	iment		1,15	mg/kg			
Normal value for mar	ine water se	ediment		0,115	mg/kg			
Health - Derived no-eff	ect level - [ONEL / DMEL						
	Effects o	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral			VND	18,8				
				mg/kg bw/d				
Inhalation			VND	32,6			VND	110
				mg/m3				mg/m3
Skin			VND	18,8			VND	31,2
				mg/kg bw/d				mg/kg
								hw/d



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SECTION 8. Exposure controls/personal protection/>>

LCTION O. EXP	osuic contro	313/ pc130110	i protection							
				Benzoth	Benzothiazole-2-thiol					
Threshold Limit	t Value									
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
AGW	DEU	4								
Predicted no-ef	fect concentra	ation - PNEC								
Normal value	in fresh water					0,0041	mg/l			
Normal value	in marine water	er				0,00041	mg/l			
Normal value	for fresh water	sediment				0,147	mg/kg/d			

			Aminoprop	yltriethoxysilar	1 е			
Predicted no-effect cor	ncentration	- PNEC		•				
Normal value in fresh	water					0,33	mg/l	
Normal value in mari			0,033	mg/l				
Normal value for fres	h water sedi	ment			0,26	mg/kg/d		
Health - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral	VND	5	VND	5				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	VND	17,4	VND	17	VND	59	VND	59
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	5	VND	5	VND	8,3	VND	8,3
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d

				TITANIL	JM DIOXIDI	DE
Threshold Limit \	/alue					
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	10				RESP
TLV	GRC		10			
TLV	ROU	10		15		
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				

				ETHA	NOLAMINE		
Threshold Limit	Value						
Type	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2,5	1	7,6	3	SKIN	
AGW	DEU	0,5	0,2	0,5	0,2	SKIN	
MAK	DEU	0,51	0,2	0,51	0,2		
TLV	GRC	2,5	1	7,6	3		
VLEP	ITA	2,5	1	7,6	3	SKIN	
TLV	ROU	2,5	1	7,6	3	SKIN	
WEL	GBR	2,5	1	7,6	3	SKIN	
OEL	EU	2,5	1	7,6	3	SKIN	
TLV-ACGIH		7,5	3	15	6		

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

 $\label{protective} \mbox{ Personal protective equipment must be CE marked, showing that it complies with applicable standards.}$

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



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SECTION 8. Exposure controls/personal protection .../>

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 A 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance liquid

Colour white

Odour characteristic of solvent

Melting point / freezing point not available Initial boiling point 100 °C Flammability not applicable Lower explosive limit not available not available Upper explosive limit Flash point Auto-ignition temperature not available Decomposition temperature not available

H 8,5-9,5 Concentration: 100 % Temperature: 25 °C

Kinematic viscosity

100 KU

Method:ASTM D 562-05

Temperature: 25 °C

Temperature: 25 °C

Dynamic viscosity 1400 mm2/s Method:Converting Formula from Dynamic Viscosity & Density

Temperature: 25 °C Solubility partially soluble

Partition coefficient: n-octanol/water not available Vapour pressure not available

Density and/or relative density 1,22±0,02 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 hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 53,21 %
Explosive properties not applicable
Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

@EPY 11.2.1 - SDS 1004.14



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SECTION 10. Stability and reactivity .../>

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.

ETHANOLAMINE

May react dangerously with: acrylonitrile,chloroepoxypropane,chlorosulphuric acid,hydrogen chloride,iron-sulphur compounds,acetic acid,acetic anhydride,mesityl oxide,nitric acid,sulphuric acid,strong acids,vinyl acetate,cellulose nitrate.

10.4. Conditions to avoid

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

ETHANOLAMINE

Avoid exposure to: air, sources of heat.

10.5. Incompatible materials

ETHANOLAMINE

Incompatible with: iron, strong acids, strong oxidants.

10.6. Hazardous decomposition products

ETHANOLAMINE

May develop: nitric oxide,carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

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

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



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SECTION 11. Toxicological information ... / >>

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

Benzothiazole-2-thiol

 LD50 (Dermal):
 > 7940 mg/kg Rabbit

 LD50 (Oral):
 3800 mg/kg Rat

Aminopropyltriethoxysilane

 LD50 (Dermal):
 4076 mg/kg rabbit

 LD50 (Oral):
 1490 mg/kg rat

TITANIUM DIOXIDE

LD50 (Oral): > 10000 mg/kg Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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

Rheology Modifier Benzothiazole-2-thiol Aminopropyltriethoxysilane

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

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





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SECTION 11. Toxicological information .../>>

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

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

1,2-Benzisothiazol-3(2H)-one

LC50 - for Fish 0,8 mg/l/96h Oncorhynchus mykiss (Ιριδίζουσα πέστροφα) EC50 - for Algae / Aquatic Plants 4,4 mg/l/72h Daphnia magna (Νερόψυλλος ο μέγας)

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)

 LC50 - for Fish
 0,58 mg/l/96h

 EC50 - for Algae / Aquatic Plants
 0,161 mg/l/72h

 Chronic NOEC for Algae / Aquatic Plants
 0,032 mg/l 96h

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

EC50 - for Algae / Aquatic Plants > 7,49 mg/l/72h Chronic NOEC for Fish > 6 mg/l Chronic NOEC for Crustacea > 1,46 mg/l

Benzothiazole-2-thiol

 LC50 - for Fish
 0,11 mg/l/96h

 EC50 - for Crustacea
 4,1 mg/l/48h

 Chronic NOEC for Fish
 0,041 mg/l

 Chronic NOEC for Crustacea
 0,08 mg/l

Aminopropyltriethoxysilane

 LC50 - for Fish
 > 934 mg/l/96h

 EC50 - for Crustacea
 331 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 1000 mg/l/72h

 Chronic NOEC for Fish
 1,3 mg/l

12.2. Persistence and degradability

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) NOT rapidly degradable 30 %, Exposure time: 28 d, OECD Test Guideline 301B



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SECTION 12. Ecological information .../>>

Benzothiazole-2-thiol

Degradability: information not available

Aminopropyltriethoxysilane

Degradability: information not available

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

ETHANOLAMINE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Partition coefficient: n-octanol/water 4,04 Log Kow BCF 1,95

ETHANOLAMINE

Partition coefficient: n-octanol/water -2,3

12.4. Mobility in soil

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Partition coefficient: soil/water 2,69

ETHANOLAMINE

Partition coefficient: soil/water -0,5646

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 ≥ 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. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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





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SECTION 14. Transport information

14.2. UN proper shipping name

not applicable

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 relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

3 - 40 Point

Contained substance

75 Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

Octamethylcyclotetrasiloxane

Substances subject to authorisation (Annex XIV REACH)

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

Substances subject to the Rotterdam Convention:

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.





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SECTION 16. Other information

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

Repr. 2 Reproductive toxicity, category 2
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H361d Suspected of damaging the unborn child.

H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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