

**KRAFT HARD DUKO CLASSIC** 

Revision nr. 9 Dated 05/08/2020

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Printed on 05/08/2020

Replaced revision:8 (Dated: 05/08/2020)

	Safety Data Sheet ding to Annex II to REACH - Regulation 2015/830 stance/mixture and of the company/undertaking
<b>1.1. Product identifier</b> Code: Product name	CK32250A000, CK32250D000, CK32250P000, CK32251A000, CK32251D000, CK32251P000, CK322500001, CK322510001, CK322510024 KRAFT HARD DUKO CLASSIC (SATIN&GLOSS WHITE/P,D,A BASES/SATIN BLACK)
1.2. Relevant identified uses of the substance or rIntended useHigh performance e	nixture and uses advised against namel paint for metal
<b>1.3. Details of the supplier of the safety data shee</b> Name Full address District and Country	t DRUCKFARBEN HELLAS SA Megaridos Ave 193 00 Aspropyrgos (Attiki) Greece Tel. +30 210 5519500
e-mail address of the competent person responsible for the Safety Data Sheet	Fax +30 210 5519501 psafety@druckfarben.gr
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	+30 210 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 2015/830. 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:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

### 2.2. Label elements

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

Hazard pictograms:



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Signal words:

Warning

Hazard statements:

Flammable liquid and vapour.
Causes skin irritation.
May cause drowsiness or dizziness.

Precautionary statements:

P210 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing / eye protection / face protection / ear protection.
P370+P378	In case of fire: use $CO_2$ , foam or dry powder for extinction.
P501	Dispose of contents and container to an approved waste disposal plant or recycled in accordance with local / national / international regulations.
P102	Keep out of reach of children.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P101	If medical advice is needed, have product container or label at hand.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P312	Call a POISON CENTRE / doctor if you feel unwell.
Contains:	hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C9, aromatics

## 2.3. Other hazards

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

## **SECTION 3. Composition/information on ingredients**

## 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics		
CAS 64742-48-9	30 < x < 50	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Classification note according to Annex VI to the CLP Regulation: P
EC 919-857-5		
INDEX -		
Reg. no. 01-2119463258-33-0000		
xylene (mixture of isomers)		
CAS 1330-20-7	9 < x < 10	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
EC 215-535-7		



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TATATS			Replaced revision:8 (Dated: 05/08/2020)
INDEX 601-022-00-9 Reg. no. 01-2119488216-32			
Hydrocarbons, C9, aromatics	4		
CAS 64742-95-6	1 < x < 2,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335 Aquatic Chronic 2 H411, EUH066, Classification note a	
EC 918-668-5		to the CLP Regulation: P	
INDEX -			
Reg. no. 01-2119455851-35-0001			
Polyacrylate			
CAS	1 < x < 5	Skin Irrit. 2 H315	
EC			
INDEX -			
2-butoxyethanol CAS 111-76-2	0,5 < x < 1	Aguta Tay, 4 H202, Aguta Tay, 4 H212, Aguta Tay, 4 H	222 Evolerit 2 4210
CAS 111-70-2	0,5 < X < 1	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H Skin Irrit. 2 H315	332, Eye IIII. 2 H3 19,
EC 203-905-0			
INDEX 603-014-00-0			
Reg. no. 01-2119475108-36			
2-ethylhexanoic acid, zirconium			
salt CAS 22464-99-9	0,5 < x < 1	Repr. 2 H361d	
EC 245-018-1			
INDEX -			
Henerais said 2 sthud sine salt			
Hexanoic acid, 2-ethyl-, zinc salt, basic			
CAS 85203-81-2	0 < x < 0,5	Repr. 2 H361d, Eye Irrit. 2 H319, Aquatic Chronic 3 H4	12
EC 286-272-3			
INDEX -			
Reg. no. 01-2119979093-30-0004			
ethylbenzene			
CAS 100-41-4	0 < x < 0,5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H30 Aquatic Chronic 3 H412	4, STOT RE 2 H373,
EC 202-849-4			
INDEX 601-023-00-4			
Reg. no. 01-2119489370			
2-methoxy-1-methylethyl acetate			
CAS 108-65-6	0 < x < 0,5	Flam. Liq. 3 H226	
EC 203-603-9			
INDEX 607-195-00-7			



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1-methoxy-2-propanol		
CAS 107-98-2	0 < x < 0,5	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-539-1		
INDEX 603-064-00-3		
Reg. no. 01-2119457435-35-0000		
acetone		
CAS 67-64-1	0 < x < 0,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 200-662-2		
INDEX 606-001-00-8		
Reg. no. 01-2119471330-49-0016		
2-(2-butoxyethoxy)ethanol		
CAS 112-34-5	0 < x < 0,5	Eye Irrit. 2 H319
	,-	
EC 203-961-6		
INDEX 603-096-00-8		
Reg. no. 01-2119475104-44		
2,6-di-tert-butyl-p-cresol		
CAS 128-37-0	0 < x < 0,5	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
50,004,004,4		
EC 204-881-4		
INDEX -		
Reg. no. 01-2119565113-46		

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 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



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### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

## UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

### 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.



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## 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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)

Information not available

## **SECTION 8. Exposure controls/personal protection**

## 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
	- F	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА № 13 от 30 декември 2003 г (4 Септември 2018г)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
GRC	Ελλάδα	EOHMEPI
		Α ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind
		stabilirea cerin
		elor minime de securitate
		i sănătate în muncă pentru asigurarea protec
		iei lucrătorilor împotriva riscurilor legate de prezen
		a agen
		ilor chimici
EU	OEL EU	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 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

## hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio		
		mg/m3	ppm	mg/m3	ppm	00001144		
TLV	GRC	1200						
Health - Derived no-effe	ct level - DNEL / [	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	300 mg/kg/d				
Inhalation			VND	900 mg/m3	VND	1500 mg/m3		
Skin			VND	300 mg/kg/d			VND	300 mg/kg/d

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
WEL	GBR		50		100		
TLV	GRC	435	100	650	150		
OEL	EU	221	50	442	100		
TLV-ACGIH			100		150		



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Normal value in fresh water				0,327	mg	j/1		
Normal value in marine wate	r			0,327	mg	g/l		
Normal value for fresh water	sediment			12,46	mg	j/kg		
Normal value for marine wat	er sediment			12,46	mg	g/kg		
Health - Derived no-effe	ect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute	Chronic local	Chronic
Oral			VND	1,6 mg/kg/d		systemic		systemic
Inhalation	174 mg/m3	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	VND	77 mg/m3
Skin			VND	108 mg/kg/d			VND	180 mg/kg/
Hydrocarbons, C9, arou Threshold Limit Value	natics							
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	Observati	ons	
TLV	GRC	100						
Health - Derived no-effe	ect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 11 mg/kg/d		systemic		systemic
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg/d			VND	25 mg/kg/c
2-butoxyethanol Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observati	ons	
TLV	BGR	98		246		SKIN		
WEL	GBR	123	25	246	50	SKIN		
TLV	GRC	120	25					
VLEP	ITA	98	20	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Health - Derived no-effe	ect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3,2 mg/kg		Systemile		Systerfill
Inhalation	123 mg/m3	VND	VND	49 mg/m3			VND	20 ppm
Skin			VND	38 mg/kg			VND	75 mg/kg
2-ethylhexanoic acid, z	irconium salt							
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm			
WEL	GBR	5		10			As Zr	



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TLV	ROU	5		10			In Zr	
TLV-ACGIH		5		10				
ethylbenzene Fhreshold Limit Valu	10							
Type	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm	0030174		
WEL	GBR		100		125			
TLV	GRC	435	100	545	125			
OEL	EU	442	100	884	200			
TLV-ACGIH			100		125			
<mark>2-methoxy-1-methyle</mark> Threshold Limit Valu								
Type	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observa	tions	
TLV	BGR	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
TLV	GRC	275	50	550	100			
VLEP	ITA	275	50	550	100	SKIN		
TLV	ROU	275	50	550	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect conce	entration - PNEC							
Normal value in fresh wat	ter			0,635	mg/	1		
Normal value in marine w	/ater			0,0635	ml/l			
Normal value for fresh wa	ater sediment			3,29	mg/	/kg		
Normal value for marine v	water sediment			0,329	mg/	/kg		
Normal value for water, in	ntermittent release			6,35	mg/	(1		
	roorganisms			100	mg/	/1		
Normal value of STP mic	3							
Normal value of STP mic Health - Derived no-e	effect level - DNEL / Effects on	DMEL			Effects on workers			
Health - Derived no-e	effect level - DNEL /		c Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic loca	
Health - Derived no-e	effect level - DNEL / Effects on consumers		c Chronic local	Chronic systemic 1,67 mg/kg	workers	Acute systemic	Chronic loca	I Chronic systemic
Health - Derived no-e Route of exposure Oral	effect level - DNEL / Effects on consumers			systemic	workers		Chronic loca	systemic
	effect level - DNEL / Effects on consumers		VND	systemic 1,67 mg/kg	workers Acute local	systemic		
Health - Derived no-e Route of exposure Oral Inhalation Skin 1-methoxy-2-propane	effect level - DNEL / Effects on consumers Acute local		VND VND	systemic 1,67 mg/kg 33 mg/m3	workers Acute local	systemic	VND	systemic 275 mg/m3
Health - Derived no-e Route of exposure Oral Inhalation Skin 1-methoxy-2-propane Threshold Limit Valu	effect level - DNEL / Effects on consumers Acute local		VND VND	systemic 1,67 mg/kg 33 mg/m3	workers Acute local	systemic VND Remarks	VND VND	systemic 275 mg/m3
Health - Derived no-e Route of exposure Oral Inhalation Skin 1-methoxy-2-propane Threshold Limit Valu	effect level - DNEL / Effects on consumers Acute local	Acute systemic	VND VND VND	systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min	workers Acute local 553,5 mg/m3	systemic VND	VND VND	systemic 275 mg/m3
Health - Derived no-e Route of exposure Oral Inhalation	effect level - DNEL / Effects on consumers Acute local	Acute systemi	VND VND	systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg	workers Acute local	systemic VND Remarks	VND VND	systemic 275 mg/m3
Health - Derived no-e Route of exposure Oral Inhalation Skin 1-methoxy-2-propane Threshold Limit Valu Type	ol Country	Acute systemic	VND VND VND	systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min	workers Acute local 553,5 mg/m3	systemic VND Remarks	VND VND	systemic 275 mg/m3
Health - Derived no-e Route of exposure Oral Inhalation Skin 1-methoxy-2-propane Threshold Limit Valu Type	effect level - DNEL / Effects on consumers Acute local Acute local	Acute systemi TWA/8h mg/m3	VND VND VND ppm 100	systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3	workers Acute local 553,5 mg/m3 553,5 mg/m3 150	systemic VND Remarks	VND VND	systemic 275 mg/m3



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Predicted no-effect concentration - PNEC								
Normal value in fresh water				10	mg/	/1		
Normal value in marine water				1	mg/	1		
Normal value for fresh water sediment				41,6	mg/	/kg		
Normal value for marine water sediment				4,17	mg/	/kg		
Normal value for water, intermittent release				100	mg/	1		
Health - Derived no-effect level - DNEL / DMEL								
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3,3 mg/kg				
Inhalation			VND	43,9 mg/m3	553,5 mg/m3	VND	VND	369 mg/m3
Skin			VND	18,1 mg/kg			VND	50,6 mg/kg

Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		mg/m3	ppm	mg/m3	ppm		-	
TLV	BGR	600		1400				
WEL	GBR	1210	500	3620	1500			
TLV	GRC	1780		3560				
VLEP	ITA	1210	500					
OEL	EU	1210	500					
TLV-ACGIH		1187	500	1781	750			
Predicted no-effect concentratio	n - PNEC							
Normal value in fresh water				10,6	mg/l			
Normal value in marine water				1,06	mg/l			
Normal value of STP microorga	nisms			29,5	mg/l			
Health - Derived no-effect	level - DNEL / D	OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	62 mg/kg/d		-		
Inhalation			VND	200 mg/m3	VND	2420 mg/m3	VND	1210 mg/m3
Skin			VND	62 mg/kg/d			VND	186 mg/kg/c

## 2-(2-butoxyethoxy)ethanol

Threshold Limit Value	ue					
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	67,5	10	101,2	15	
WEL	GBR	67,5	10	101,2	15	
TLV	GRC	67,5	10	101,2	15	
VLEP	ITA	67,5	10	101,2	15	
TLV	ROU	67,5	10	101,2	15	
OEL	EU	67,5	10	101,2	15	



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TLV-ACGIH 66 10

Threshold Limit Value	<b>0</b> ·	<b>T</b> 14/4/61		0751/45			,	
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	10						
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,0002	mg	ı/l		
Normal value in marine water				0,00002	mg	ı/I		
Health - Derived no-effect	level - DNEL / I	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				*			VND	3,5 mg/kg
Skin							VND	0,5 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.

Provide an emergency shower with face and eye wash station.

#### 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 II 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### 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



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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

Appearance	viscous liquid
Colour	light cream
Odour	characteristic of solvent
Odour threshold	Not available
рН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	23 < T < 60 °C
<b>F</b> (1) <b>F</b> (	
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,90-1,25 g/cm3
Solubility	soluble in organic solvents
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	85(±10) KU
Explosive properties	not applicable
Oxidising properties	not applicable
9.2. Other information	

VOC (Directive 2010/75/EC) :	48,94 %
VOC (volatile carbon) :	47,60 %

## **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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### 2-butoxyethanol

2-BUTOXYETHANOL: decomposes in the presence of heat.

## 2-methoxy-1-methylethyl acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

### 1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

### acetone

ACETONE: decomposes under the effect of heat.

### 10.2. Chemical stability

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

# 2-ethylhexanoic acid, zirconium salt

SADT = 210°C/410°F.

## 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

## xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

### 2-butoxyethanol

2-BUTOXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air.

## ethylbenzene

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

### 2-methoxy-1-methylethyl acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

### 1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

## acetone

ACETONE: risk of explosion on contact with: bromine trifluoride, difluoro dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. Can react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxymonosulphuric acid, phosphoryl chloride, chromosulphuric acid, fluorine, strong oxidising agents. Develops flammable gases with nitrosyl perchlorate.

## 2-(2-butoxyethoxy)ethanol

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.

## 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

## 2-butoxyethanol

2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames.



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### 1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: avoid exposure to the air. acetone

ACETONE: avoid exposure to sources of heat and naked flames.

## 2-(2-butoxyethoxy)ethanol

Avoid exposure to: air.

10.5. Incompatible materials

2-methoxy-1-methylethyl acetate Incompatible with: oxidising substances,strong acids,alkaline metals.

1-methoxy-2-propanol 1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

acetone ACETONE: acid and oxidising substances.

2-(2-butoxyethoxy)ethanol Incompatible with: oxidising substances,strong acids,alkaline metals.

## 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-butoxyethanol 2-BUTOXYETHANOL: hydrogen.

# ethylbenzene

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

acetone ACETONE: ketenes and other irritating compounds.

## 2-(2-butoxyethoxy)ethanol

May develop: hydrogen.

## **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 toxicological effects

### xylene (mixture of isomers)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

### ethylbenzene

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

### 1-methoxy-2-propanol

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular



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irritation on direct contact. No chronic effects have been reported in man.

Metabolism, toxicokinetics, mechanism of action and other information

### 2-methoxy-1-methylethyl acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

### 2-methoxy-1-methylethyl acetate

WORKERS: inhalation; contact with the skin.

### 2-(2-butoxyethoxy)ethanol

WORKERS: inhalation; contact with the skin.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

### 2-methoxy-1-methylethyl acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

### 2-(2-butoxyethoxy)ethanol

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

2-butoxyethanol LD50 (Oral) 1746 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rabbit

LC50 (Inhalation) > 2 mg/l/4h Rat

#### Hydrocarbons, C9, aromatics LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rabbit

LC50 (Inhalation) > 20 mg/l/4h

acetone LD50 (Oral) 5800 mg/kg Rat

LD50 (Dermal) 500 mg/kg Rabbit



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hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics LD50 (Oral) > 5000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

LC50 (Inhalation) > 20 mg/l/4h Rat

**ethylbenzene** LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

1-methoxy-2-propanol LD50 (Oral) > 2000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

LC50 (Inhalation) 54,6 mg/l/4h Rat

xylene (mixture of isomers) LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) > 1700 mg/kg Rabbit

LC50 (Inhalation) 5000 ppm/4h Rat

### 2-methoxy-1-methylethyl acetate LD50 (Oral) 8530 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rat

LC50 (Inhalation) > 25,8 mg/l Rat

## 2-ethylhexanoic acid, zirconium salt

LD50 (Oral) > 5000 mg/kg Rat - Sprague-Dawley

LD50 (Dermal) > 2000 mg/kg Rat - Wistar

LC50 (Inhalation) > 4,3 mg/l/4h Rat

## 2-(2-butoxyethoxy)ethanol

LD50 (Oral) 6560 mg/kg Rat

LD50 (Dermal) 2700 mg/kg Rabbit

### Polyacrylate LD50 (Oral) > 5000 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class



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### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

## 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

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm2/sec (40°C)

## **SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

## 12.1. Toxicity

2-butoxyethanol	
LC50 - for Fish	1474 mg/l/96h
EC50 - for Crustacea	1550 mg/l/48h
EC50 - for Algae / Aquatic Plants	1840 mg/l/72h
Chronic NOEC for Fish	> 100 mg/l
Chronic NOEC for Crustacea	> 100 mg/l
Hydrocarbons, C9, aromatics	
LC50 - for Fish	> 1 mg/l/96h
EC50 - for Crustacea	> 1 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h

### acetone

LC50 - for Fish	> 100 mg/l/96h
	> 100 mg/i/90m



EC50 - for Algae / Aquatic Plants

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

xylene (mixture of isomers)

2-ethylhexanoic acid, zirconium salt

EC50 - for Algae / Aquatic Plants

2-(2-butoxyethoxy)ethanol

Chronic NOEC for Fish

LC50 - for Fish

EC50 - for Crustacea

Chronic NOEC for Fish

1-methoxy-2-propanol

LC50 - for Fish

LC50 - for Fish

LC50 - for Fish

LC50 - for Fish

EC50 - for Crustacea

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0,1 mg/l

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2-butoxyethanol Rapidly degradable

12.2. Persistence and degradability

## Hydrocarbons, C9, aromatics Rapidly degradable

acetone Rapidly degradable

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Rapidly degradable

xylene (mixture of isomers) Rapidly degradable

2-methoxy-1-methylethyl acetate Solubility in water Rapidly degradable

2-ethylhexanoic acid, zirconium salt

> 10000 mg/l



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Solubility in water	< 0,1 mg/l
Rapidly degradable	
2-(2-butoxyethoxy)ethanol	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
2,6-di-tert-butyl-p-cresol	
Degradability: information not available	
12.3. Bioaccumulative potential	
acetone	
Partition coefficient: n-octanol/water	-0,24
BCF	3
2-methoxy-1-methylethyl acetate	
Partition coefficient: n-octanol/water	1,2
2-(2-butoxyethoxy)ethanol	
Partition coefficient: n-octanol/water	1
2,6-di-tert-butyl-p-cresol	
Partition coefficient: n-octanol/water	5,1 Log Kow
BCF	< 1800
12.4. Mobility in soil	
Information not available	
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 greater than 0,1%.

### 12.6. 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. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

# **SECTION 14. Transport information**



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## 14.1. UN number

ADR / RID, IMDG, 1263 IATA:

## 14.2. UN proper shipping name

ADR / RID:	PAINT or PAINT RELATED MATERIAL
IMDG:	PAINT or PAINT RELATED MATERIAL
IATA:	PAINT or PAINT RELATED MATERIAL

### 14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



## 14.4. Packing group

ADR / RID, IMDG, III IATA:

## 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

## 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special Provision: -		
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Information not relevant

## **SECTION 15. Regulatory information**



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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
Seveso Category - Directive 2012/18/EC: P5c		
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006		
Product Point 3 - 40		
Substances in Candidate List (Art. 59 REACH)		
On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.		
Substances subject to authorisation (Annex XIV REACH)		
None		
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:		
None		
Substances subject to the Rotterdam Convention:		
None		
Substances subject to the Stockholm Convention: None		
Healthcare controls		

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

## 15.2. Chemical safety assessment

h

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
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1



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Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament



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4. Regulation (EU) 2015/830 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
- 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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII 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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

09.