1	Γi.Pi.Ci. S.a.s.	Revision nr. 6
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	Safety Data Sheet	
According to A	nnex II to REACH - Regulation 2020/878 and to An	nex II to UK REACH
SECTION 1. Identification of the	substance/mixture and of the com	ipany/undertaking
.1. Product identifier		
Code:	159881-	
Product name	HYDROGUARD HB	
.2. Relevant identified uses of the substant ntended use Component "A	ce or mixture and uses advised against " for two components water based paint.	
.3. Details of the supplier of the safety data Name	sheet Ti.Pi.Ci. S.a.s.	
Full address District and Country	Via Val Lerone, 21 16011 Arenzano (GE) Italy	
	Tel. +39 010 9111368	
	Fax +39 010 9134188	
e-mail address of the competent person		
esponsible for the Safety Data Sheet	laboris@tipici.net	
.4. Emergency telephone number		
or urgent inquiries refer to	Bergamo) Centro Antiveleni di Firenze +39055/794 Centro Antiveleni di Foggia +398001834	
	Centro Antiveleni di Napoli +39081/5453 Centro Antiveleni di Pavia +390382/2444 Centro Antiveleni di Roma +3906/30543 Centro Antiveleni di Roma +3906/49978	44 (CAV IRCCS Fondazione Maugeri - Pavia) 43 (CAV Policlinico Gemelli - Roma) 000 (CAV Policlinico Umberto I - Roma)
	Centro Antiveleni di Roma +3906/68593 Roma)	726 (CAV Osp. Pediatrico Bambino Gesù -

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:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.

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category 3			
.2. Label elements			
łazard labelling pursua	nt to EC Regulation 1272/2008 (CLP) and subs	sequent amendments a	nd supplements.
Hazard pictograms:			
$\mathbf{\vee}$			
Signal words:	Warning		
lazard statements:			
H319	Causes serious eye irritation.		
H315 H317	Causes skin irritation. May cause an allergic skin reaction.		
H412	Harmful to aquatic life with long lasting ef	fects.	
Precautionary statement	ts:		
P280	Wear protective gloves / eye protection / t		
P261 P333+P313	Avoid breathing dust / fume / gas / mist / v If skin irritation or rash occurs: Get medic		
P337+P313	If eye irritation persists: Get medical advice	ce / attention.	
P264 P362+P364	Wash with fresh water thoroughly after ha Take off contaminated clothing and wash	it before reuse.	
Contains:	Oxiran, mono[(C12-14-alkyloxy)methyl] d		
	REACTION PRODUCT: BISPHENOL A-(REACTION PRODUCT: BISPHENOL F-(
	Phenol, methylstyrenated	EFICILORITDRIN)	
OC (Directive 2004/42)			
wo - pack performance	coatings.		
VOC given in g/litre of	product in a ready-to-use condition :	62,54	
Limit value:		140,00	
- Catalysed with :		50,00 % 0	CAT. per HYDROGUARD HB
.3. Other hazards			
)n the basis of available	e data, the product does not contain any PBT c	or vPvB in percentage ≥	: than 0,1%.
he product does not cc	ntain substances with endocrine disrupting pro	operties in concentratior	n ≥ 0.1%.

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3.2. Mixtures

Contains:

	Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
	REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) INDEX 603-074-00-8	16≤x< 17	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
	EC 500-033-5		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%
	CAS 25068-38-6		
	REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN) INDEX	7≤x< 8	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
	EC -		
	CAS 28064-14-4		
	2-METHOXY-1-METHYLETHYL ACETATE INDEX 607-195-00-7	6≤x< 7	Flam. Liq. 3 H226
	EC 203-603-9		
	CAS 108-65-6		
	REACH Reg. 01-2119475791-29		
	Diisopropylnaphthalene isomers		
	INDEX -	5≤x< 6	Aquatic Chronic 4 H413
	EC 254-052-6		
	CAS 38640-62-9		
	Oxiran, mono[(C12-14- alkyloxy)methyl] derivs. INDEX 603-103-00-4	3,5 ≤ x < 4	Skin Irrit. 2 H315, Skin Sens. 1 H317
	EC 271-846-8		
	CAS 68609-97-2		
	Phenol, methylstyrenated		
	INDEX	3 ≤ x < 3,5	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412
	EC -		
	CAS 68512-30-1		
	QUARTZ		
	INDEX -	2,5 ≤ x < 3	STOT RE 2 H373
	EC 238-878-4		
	CAS 14808-60-7		
L			

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice. SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated

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clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately. INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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

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.

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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.

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:

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
ESP	España	Límites de exposición profesional para agentes guímicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
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 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

2-METHOXY-1-METHYLETHYL ACETATE

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	270	50	270	50		
MAK	DEU	270	50	270	50		
VLA	ESP	275	50	550	100	SKIN	
VLEP	FRA	275	50	550	100	SKIN	
VLEP	ITA	275	50	550	100	SKIN	
WEL	GBR	274	50	548	100	SKIN	
OEL	EU	275	50	550	100	SKIN	

Phenol, methylstyrenated

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Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			0,014	m	g/l		
Normal value in marine wa	ter			0,0014	m	g/l		
Normal value for fresh wate	er sediment			1064	m	g/kg/d		
Normal value for marine wa	ater sediment			106	m	g/kg/d		
Normal value for water, inte	ermittent release			0,14	m	g/l		
Normal value of STP micro	organisms			2,4	m	g/l		
Normal value for the terres	trial compartment			212	m	g/kg/d		
Health - Derived no-ef	fect level - DNEL / [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				0,2 mg/kg bw/d				
Inhalation				0,35 mg/m3				1,4 mg/kg
Skin				1,7 mg/kg bw/d				3,5 mg/kg bw/d

QUARTZ

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP		0,05			RESP	
VLEP	FRA	0,1				RESP	
VLEP	ITA	0,1				RESP	
OEL	EU	0,1				RESP	
TLV-ACGIH		0,025				RESP	

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.

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

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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.

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	viscous liquid	
Colour	different colours	
Odour	solvent	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	80,5 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,616 (+-) 0,050	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

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Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) :	6,81 %	-	110,00	g/litre
VOC (volatile carbon)	3,56 %	-	57,50	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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.

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.

2-METHOXY-1-METHYLETHYL ACETATE

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

Information not available

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.

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t is therefore necessary to take into account the e effects of exposure to the product.	concentration of the individual hazardous substan	ces indicated in section 3, to evaluate the toxicologic
11.1. Information on hazard classes as defined	d in Regulation (EC) No 1272/2008	
Metabolism, toxicokinetics, mechanism of action a	and other information	
2-METHOXY-1-METHYLETHYL ACETATE The main route of entry is the skin, whereas the re	espiratory route is less important due to the low va	apour pressure of the product.
nformation on likely routes of exposure		
2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.		
Delayed and immediate effects as well as chronic	effects from short and long-term exposure	
		om, disturbance of equilibrium and severe eye irritation
rritation with direct contact. No chronic effects on		no anomalies. Acetate produces greater skin and e
		no anomalies. Acetate produces greater skin and e
rritation with direct contact. No chronic effects on		no anomalies. Acetate produces greater skin and e
rritation with direct contact. No chronic effects on nteractive effects		no anomalies. Acetate produces greater skin and e
rritation with direct contact. No chronic effects on <u>nteractive effects</u> nformation not available		ponent) ponent)
rritation with direct contact. No chronic effects on <u>nteractive effects</u> nformation not available <u>ACUTE TOXICITY</u> ATE (Inhalation) of the mixture: ATE (Oral) of the mixture:	i humans have been reported (INCR, 2010). Not classified (no significant comp Not classified (no significant comp	ponent) ponent)
rritation with direct contact. No chronic effects on <u>nteractive effects</u> nformation not available <u>ACUTE TOXICITY</u> ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	i humans have been reported (INCR, 2010). Not classified (no significant comp Not classified (no significant comp	ponent) ponent)
rritation with direct contact. No chronic effects on <u>nteractive effects</u> nformation not available <u>ACUTE TOXICITY</u> ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: 2-METHOXY-1-METHYLETHYL ACETATE LD50 (Dermal):	numans have been reported (INCR, 2010). Not classified (no significant comp Not classified (no significant comp Not classified (no significant comp Not classified (no significant comp > 5000 mg/kg Rat	ponent) ponent)
rritation with direct contact. No chronic effects on <u>nteractive effects</u> nformation not available <u>ACUTE TOXICITY</u> ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: 2-METHOXY-1-METHYLETHYL ACETATE LD50 (Dermal): LD50 (Oral):	numans have been reported (INCR, 2010). Not classified (no significant comp Not classified (no significant comp Not classified (no significant comp Not classified (no significant comp > 5000 mg/kg Rat	ponent) ponent)

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Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

Does not meet the classification criteria for this hazard class

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

11.2. Information on other hazards

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ased on the available data, the product does not cor uman health effects under evaluation.	tain substances listed in the main European lists of poten	tial or suspected endocrine disruptors with
SECTION 12. Ecological information	n	
his product is dangerous for the environment and the	e aquatic organisms. In the long term, it have negative effe	ects on aquatic environment
2.1. Toxicity		
formation not available		
2.2. Persistence and degradability		
2-METHOXY-1-METHYLETHYL ACETATE		
Solubility in water	> 10000 mg/l	
REACTION PRODUCT: BISPHENOL A- EPICHLORHYDRIN)		
Solubility in water	0,1 - 100 mg/l	
NOT rapidly degradable		
2.3. Bioaccumulative potential		
2-METHOXY-1-METHYLETHYL ACETATE		
Partition coefficient: n-octanol/water	1,2	
REACTION PRODUCT: BISPHENOL A-		
(EPICHLORHYDRIN)		
Partition coefficient: n-octanol/water	> 2,918	
BCF	31	
2.4. Mobility in soil		
REACTION PRODUCT: BISPHENOL A-		
(EPICHLORHYDRIN) Partition coefficient: soil/water	2,65	

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

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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

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

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14.7. Maritime transport in bulk according to IMO instruments	
Information not relevant	
SECTION 45 Degulatory information	
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	
Product	
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)	
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.	
Substances subject to authorisation (Annex XIV REACH)	
None	
Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:	
None	
Substances subject to the Rotterdam Convention:	
None	
Substances subject to the Stockholm Convention:	
None	
Healthcare controls	
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment da	ata prove that the risks related to the
workers' health and safety are modest and that the 98/24/EC directive is respected.	
VOC (Directive 2004/42/EC):	

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Two - pack performance coatings.

15.2. Chemical safety assessment

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

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3
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
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H226	Flammable liquid and vapour.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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

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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).	
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Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review: The following sections were modified: 02 / 03 / 09 / 11 / 12 / 15 / 16.