

# CHT UK BRIDGWATER LTD

SE2003B

Revision nr.16 Dated 14/04/2022 Printed on 14/04/2022 Page n. 1 / 11 Replaced revision:15 (Dated 09/03/2021)

# Safety Data Sheet

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

Product identifier			
Product name		SE2003B	
2. Relevant identified uses	of the substance or m	ixture and uses advised aga	ainst
Intended use		Thermally Conductive Enc	apsulant.
3. Details of the supplier of	the safety data sheet		
Name Full address District and Country		CHT UK BRIDGWATER LTI Amber House Showground TA6 6AJ Bridgwater England Tel. +44(0)127841	d Road (Somerset)
e-mail address of the comper responsible for the Safety Da		Fax +44(0)127841 info.uk@cht.com	
Supplier:		CHT Germany GmbH Bismarckstraße 102 72072 Tübingen Germany	
.4. Emergency telephone nu	mber		
For urgent inquiries refer to		Australia: 0418529118 All other enquiries +44(0)12	279 444 400
			2/6411400
		• • • • •	278 411400
ECTION 2. Hazards	identification	,	278 41 1400
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.1. Classification of the subs The product is classified as h amendments and supplemer	stance or mixture	ne provisions set forth in (EC) l	Regulation 1272/2008 (CLP) (and subsequent t complies with the provisions of (EU) Regulation
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The product does not contain substances with endocrine disrupting properties in concentration  $\ge 0.1\%$ .

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

x = Conc. %

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification

Classification (EC) 1272/2008 (CLP)

#### ALUMINIUM OXIDE

CAS 1344-28-1  $70 \le x < 74$ FC 215-691-6 INDEX REACH Reg. 01-2119529248-35 **PIGMENT RED 101** 1309-37-1 CAS 15 < x < 2EC 215-168-2 INDEX REACH Reg. 01-2119457614-35 OCTAMETHYLCYCLOTETRASILOXANE CAS 556-67-2  $0.025 \le x \le 0.13$ Repr. 2 H361f, Aquatic Chronic 1 H410 M=10 EC 209-136-7 INDEX REACH Reg. 01-2119529238-36

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 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

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#### GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

# SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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

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

#### 6.4. Reference to other sections

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

# SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. 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.

#### 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:

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
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i



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

		arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, van het Arbeidsomstandighedenbesluit
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
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
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)

TLV-ACGIH ACGIH 2021

				ALUMIN	IIUM OXIDE			
reshold Limit \	/alue							
Туре	Country	TWA/8h		STEL/15	min	Remarks / 0	Observations	
		mg/m3	ppm	mg/m3	ppm			
MAK	DEU	4				INHAL		
MAK	DEU	1.5				RESP		
TLV	DNK	5					Som Al	
TLV	DNK	2				RESP	Som Al	
VLA	ESP	10						
VLEP	FRA	10						
AK	HUN	5					Al-ra számítva	
AK	HUN	2				RESP	Al-ra számítva	
TLV	NOR	10						
NDS/NDSCh	POL	2.5				INHAL	Na Al	
NDS/NDSCh	POL	1.2				RESP	Na Al	
TLV	ROU	2		5			Aerosoli	
NPEL	SVK	4				INHAL		
NPEL	SVK	1.5				RESP		
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		1				RESP	AI	

				PIGME	NT RED 101				
nreshold Limit V	/alue								
Туре	Count	ry TWA/	'8h	STEL/15	ōmin	Remarks /	Observations		
		mg/m	3 ppm	mg/m3	ppm				
MAK	DEU	1.5							
TLV	DNK	3.5					Som Fe		
VLA	ESP	5					Polvo-Hum	ios, como Fe	!
VLEP	FRA	5					En Fe		
HTP	FIN	5					Som Fe, rö	ök	
AK	HUN	4				RESP	Fe-ra szárr	nítva	
TLV	NOR	3							
TGG	NLD	5							
NDS/NDSCh	POL	5		10		INHAL			
NDS/NDSCh	POL	2.5		5		RESP			
TLV	ROU	5		10			Fumuri, pu	lberi	
NGV/KGV	SWE	3.5				RESP	Som Fe		
NPEL	SVK	4				INHAL	Ako Fe		
NPEL	SVK	1.5				RESP	Ako Fe		
WEL	GBR	10				INHAL			
WEL	GBR	4				RESP			
TLV-ACGIH		5				RESP			
ealth - Derived r	no-effect	level - DNE	EL / DMEL						
		Effects on co	onsumers			Effects on wo	orkers		
Route of expos	ure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
		local	systemic	local	systemic	local	systemic	local	systemic
Inhalation								10 mg/m3	VND



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

redicted no-effect cor	centration	- PNEC						
Normal value in marin	ne water					0.044	mg/l	
Normal value for fres	h water sedir	ment				0.128	mg/kg	
Normal value of STP	microorganis	sms				100	mg/l	
Normal value for the	terrestrial co	mpartment				0.16	mg/kg	
ealth - Derived no-eff							0 0	
	Effects on	consumers			Effects on w	/orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation	61 mg/m3	305 mg/m3	61 mg/m3	305 mg/m3				-

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.

HAND PROTECTION

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

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

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

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type 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
•			mormation
Appearance		viscous liquid	
Colour		red	
Odour		characteristic	
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	>	150 °C	
Auto-ignition temperature	>	400 °C	
рН		Not available	
Kinematic viscosity		13043 cSt	Temperature: 23 °C
Dynamic viscosity		30000 mPa s	Temperature: 23 °C
Solubility		immiscible with water	
Partition coefficient: n-octanol/water		Not available	
Vapour pressure		Not available	



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# SECTION 9. Physical and chemical properties ..../>>

Density and/or relative density Relative vapour density	2.3 Not available		
Particle characteristics	Not applicable		
9.2. Other information			
9.2.1. Information with regard to physical ha	zard classes		
Information not available			
9.2.2. Other safety characteristics			
VOC (Directive 2010/75/EU)	1.28 % - 29.47	g/litre	
<b>SECTION 10. Stability and react</b>	ivity		
10.1. Reactivity			

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

#### 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.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Information not available

#### 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. 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)

@EPY 11.1.2 - SDS 1004.14



> 5000 mg/kg Rat

> 5000 mg/kg (Rat)

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#### SECTION 11. Toxicological information ... / >>

ALUMINIUM OXIDE LD50 (Oral): LC50 (Inhalation mists/powders):

PIGMENT RED 101 LD50 (Oral):

OCTAMETHYLCYCLOTETRASILOXANE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): > 2.3 mg/l/4h Rat - Male, Female

> 2375 mg/kg Rat 4800 mg/kg Rat, male 36 mg/l/4h Rat, male and female

#### 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

Does not meet the classification criteria for this hazard class

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

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE



#### SECTION 11. Toxicological information ..../>

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 13043 cSt

#### 11.2. Information on other hazards

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

# **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

PIGMENT RED 101 EC50 - for Crustacea	> 100 mg/l/48h (Daphnia magna)
ALUMINIUM OXIDE	
LC50 - for Fish	> 218.64 mg/l/96h Fish - Pimephales promelas
EC50 - for Crustacea	1.9 mg/l/48h Daphnia Ceriodaphina dubia
Chronic NOEC for Fish	4.7 mg/l Fish - Pimephales promelas
OCTAMETHYLCYCLOTETRASILOXANE	
LC50 - for Fish	> 0.022 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	0.015 mg/l/48h Daphnia magna
EC10 for Algae / Aquatic Plants	> 0.022 mg/l/96h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 0.0044 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea	> 0.0015 mg/l Daphnia magna
12.2. Persistence and degradability	
PIGMENT RED 101	
Solubility in water	< 0.001 mg/l
Degradability: information not available	-
ALUMINIUM OXIDE	

Solubility in water Degradability: information not available < 2E-05 mg/l

#### 12.3. Bioaccumulative potential

Information not available

#### 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  $\geq$  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.



ΕN

SECTION 12. Ecological information

# 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

#### 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**

Austrailia AICS: On or in compliance with the inventory. Canada DSL Inventory List: On or in compliance with the inventory. EINECS, ELINCS or NLP: On or in compliance with the inventory. China Inv. Existing Chemical Substances: On or in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory. US TSCA Inventory: On or in compliance with the inventory. New Zealand Inventory of Chemicals: On or in compliance with the inventory. Taiwan Chemical Substance Inventory: On or in compliance with the inventory.



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# SECTION 15. Regulatory information ..../>>

	ive 2012/18/E	U: None
Restrictions relating to the	e product or c	ontained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product	•	
Point	3 - 40	
Contained substance		
Point	75	
Point	70	OCTAMETHYLCYCLOTETRASILOXANE
		REACH Reg.: 01-2119529238-36
Regulation (EU) 2019/11	48 - on the ma	rketing and use of explosives precursors
Not applicable		
Substances subject to au	thorisation (A	nnex XIV REACH)
	portation repo	rting pursuant to Regulation (EU) 649/2012:
None Substances subject to ex None	portation repo	rting pursuant to Regulation (EU) 649/2012:
Substances subject to ex	<u> </u>	
Substances subject to ex None Substances subject to the None	e Rotterdam C	convention:
Substances subject to ex None Substances subject to the	e Rotterdam C	convention:
Substances subject to ex None Substances subject to the None Substances subject to the None	e Rotterdam C	convention:
Substances subject to ex None Substances subject to the None Substances subject to the	e Rotterdam C	convention:

#### 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:

Repr. 2	Reproductive toxicity, category 2
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.

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%



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#### SECTION 16. Other information ..../

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

Note for users:

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

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

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

### CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review: The following sections were modified: 02 / 03 / 04 / 06 / 07 / 08 / 09 / 11 / 12 / 13 / 15 / 16.