

Revision nr. 3

Dated 08/07/2019

SIMP PROTEZIONE

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		Replaced revision:2 (Dated: 21/10/2014)				
Safety Data Sheet According to Annex II to REACH - Regulation 2015/830						
SECTION 1. Identification	of the substance/mixture and of the company/under	taking				
1.1. Product identifier Code: Product name	C00273-(09528, 09529) SIMP PROTEZIONE					
	1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Self-leveling liquid membrane for building; hygrohardener, methoxy-silanic based product.					
IDENTIFIED USES SU 17, 1 ERC 5, 8 PROC 10 PC 1	b					
1.3. Details of the supplier of the sa Name Full address District and Country	PIGAL S.R.L. A SOCIO UNICO Via G. Rossa, 2 40053 VALSAMOGGIA - Crespellano (BO) ITALIA Tel. +39 051969068 Fax +39 051969353					
e-mail address of the competent pers						
responsible for the Safety Data Shee 1.4. Emergency telephone number For urgent inquiries refer to	health.safety@pigal.it; pigalab@pigal.it 118 (contattare il centro antiveleni più vicino)/please co control center 39 051969068 ore ufficio/office hours (8.30-13; 14-17.30					

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830. Hazard classification and indication:

2.2. Label elements



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

Hazard pictograms:	
Signal words:	-
Hazard statements:	
EUH210 EUH208	Safety data sheet available on request. Contains:, N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENE DIAMINE May produce an allergic reaction.
Precautionary statements:	

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%.

During cross-linking it develops METHANOL (CAS 67-56-1) by hydrolysis.

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SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Hydrocarbons, n-alkanes, <2% AROMATIC CAS 64771-72-8	6≤x< 7	Asp. Tox. 1 H304, EUH066
EC		
INDEX -		
Reg. no. 01-2119475608-26		
METHANOL		
CAS 67-56-1	released	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
EC 200-659-6		
INDEX 603-001-00-X		
N-[3-(TRIMETHOXYSILYL)PROPY	LJETHYLENE	
CAS 1760-24-3	$0,8 \le x < 0,9$	Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318, Skin Sens. 1 H317
EC 217-164-6		
INDEX -		
Reg. no. 01-2119970215-39		

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



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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

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.



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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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a 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.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU ESP GBR GRC HRV ITA EU	Deutschland España United Kingdom Ελλάδα Hrvatska Italia OEL EU	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte INSHT - Límites de exposición profesional para agentes químicos en España 2017 EH40/2005 Workplace exposure limits EΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012 NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva Decreto Legislativo 9 Aprile 2008, n.81 Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
	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 2018

PIGAL s.r.l.

VND

26,9 mg/kg/d

VND

0,3 mg/kg/d

Skin.

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VND

0,69 mg/kg/d

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METHANOL								
Threshold Limit Value		774/4/01		0751/15				
Туре	Country	TW A/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	270	200	1080	800	SKIN		
MAK	DEU	270	200	1080	800	SKIN		
VLA	ESP	266	200			SKIN		
WEL	GBR	266	200	333	250	SKIN		
TLV	GRC	260	200	325	250			
GVI	HRV	260	200			SKIN		
VLEP	ITA	260	200			SKIN		
OEL	EU	260	200			SKIN		
TLV-ACGIH		262	200	328	250			
N-[3-(TRIMETHOXYSILYL) Predicted no-effect concentratio	n - PNEC	LENE DIAMINE						
Normal value in fresh water				0,062	mg	/1		
Normal value in marine water				0,0062	mg	/I		
Normal value for fresh water see	diment			0,22	mg	/kg		
Normal value for marine water s	ediment			0,022	mg	/kg		
Normal value for water, intermit	tent release			0,62	mg	/I		
Normal value of STP microorga	nisms			25	mg	/I		
Normal value for the terrestrial of	compartment			0,0085	mg	/kg		
Health - Derived no-effect	level - DNEL / D	MEL						
	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				8,7 mg/m3		<u> </u>		35,3 mg/m3
Skin		17 mg/kg bw/d		2,5 mg/kg bw/d		5 mg/kg bw/c]	5 mg/kg bw/o
VINYLTRIMETHOXYSILAN Predicted no-effect concentrati								
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for water, intermi Normal value of STP microorg Normal value for the terrestrial	ittent release anisms compartment			0,34 0,034 0,27 3,4 110 0,046		mg/ mg/ mg/ mg/ mg/ mg/	/I /kg /I	
Health - Derived no-effect	t level - DNEL / 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	0,3 mg/kg/d				
Inhalation.	VND	93,4 mg/m3	VND	1,04 mg/m3			VND	4,9 mg/m3
Claim		00.0		0.0				0.00



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BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,005	mg/l
Normal value in marine water	0,0005	mg/l
Normal value for fresh water sediment	8,02	mg/kg
Normal value for marine water sediment	0,802	mg/kg
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1,6	mg/kg
Health - Derived no-effect level - DNEL / DMEL		

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
		· · · · · , · · · ·		systemic		systemic		systemic
Oral.	VND	1 mg/kg	VND	1 mg/kg				
Inhalation.	VND	1,4 mg/m3	VND	1,4 mg/m3	VND	5,6 mg/m3	VND	5,6 mg/m3
Skin.	VND	1 mg/kg	VND	1 mg/kg	VND	2 mg/kg	VND	2 mg/kg

BUMETRIZOLE

DOWLTNZOLL						
Threshold Limit Value.						
Type Country TWA/8h STE		STEL/15min	STEL/15min			
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		10				

Legend:

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

TLV of solvent mixture: 262 mg/m3

8.2. Exposure controls

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

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

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

HAND PROTECTION

Protect hands with gloves nitrile gloves (thickness 0.3mm, permeation time> 480 min.). In case of continuous exposure use butyl rubber gloves (thickness 0.4mm, permeation time> 480 min.) - 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 Directive 89/686/EEC 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.



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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 grey
Odour	Characteristic (vinyl)
Odour threshold	Not available
рН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not applicable
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	1,44
Solubility	immiscible with water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	ca. 15.000 Cps
Explosive properties	Not available
Oxidising properties	Not available
Odor:	

Odor:

VOC (Directive 2010/75/EC) :	5,00 %	-	78,00	g/litre
VOC (volatile carbon) :	0			

SECTION 10. Stability and reactivity

10.1. Reactivity



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

The product reacts slowly in the presence of water (through environmental humidity) becoming a rubbery solid and producing METHANOL.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Information not available

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. In case of combustion: Carbon monoxide and carbon dioxide, smoke, nitrogen oxides, etc.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

METHANOL

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

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

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

Information not available



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ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg

C10-C13 hydrocarbons, n-alkanes, <2% AROMATIC LD50 (Oral) > 2000 mg/kg Rattus sp. LD50 (Dermal) > 2000 mg/kg Oryctolagus sp. LC50 (Inhalation) > 5 mg/l Rattus sp.

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENE DIAMINE LD50 (Oral) 2295 mg/kg Rattus sp. LD50 (Dermal) > 2000 mg/kg Oryctolagus sp. LC50 (Inhalation) 1,49 mg/l/4h Rattus sp.

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.Contains:N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENE DIAMINE

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



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ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: ca. 15.000 Cps

SECTION 12. Ecological information

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

12.1. Toxicity

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENE DIAMINE	
LC50 - for Fish	344 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	81 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	126 mg/l/72h Scenedesmus subspicatus

12.2. Persistence and degradability

METHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENE DIAMINE NOT rapidly degradable	
12.3. Bioaccumulative potential	
METHANOL	

Partition coefficient: n-octanol/water	-0,77
BCF	0,2

12.4. Mobility in soil

Mobility is limited by the transformation into an insoluble solid by reaction with humidity.

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

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

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

The valid EEC waste code are largely source-related; the manifacturer is, therefore, unable to specify waste codes for products used in various sectors. Small quantities of cured product can be treated as industrial waste similar to MSW. CER-code (suggested): 08 04 10.

SECTION 14. Transport information

PIGAL s.r.l.

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

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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4.7. Transport in bulk according t	o Annex II of M	arpol and the IBC Code	
formation not relevant			
SECTION 15. Regulatory	/ informatic	on	
15.1. Safety, health and environm	ental regulatio	ns/legislation specific for the substance or mixture	
eveso Category - Directive 2012/18	/EC: None		
Restrictions relating to the product or	contained subst	tances pursuant to Annex XVII to EC Regulation 1907/2	2006
Product	40		
Point	40		
Contained substance			
Point	69	METHANOL	
Substances in Candidate List (Art. 59	REACH)		
On the basis of available data, the pro	oduct does not c	contain any SVHC in percentage greater than 0,1%.	
Substances subject to authorisation (Annex XIV REA	<u>СН)</u>	
lone			
Substances subject to exportation rep	porting pursuant	to (EC) Reg. 649/2012:	
lone			
Substances subject to the Rotterdam	Convention:		
lone			
substances subject to the Stockholm	Convention:		
lone			
lealthcare controls			
nformation not available			
15.2. Chemical safety assessmen	ıt		
lo chemical safety assessment has b	been processed	for the mixture and the substances it contains.	

SECTION 16. Other information



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

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
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 Dam. 1	Serious eye damage, category 1
Skin Sens. 1	Skin sensitization, category 1
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.

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).



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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
- Regulation (EU) 2015/830 of the European Parliament
 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 (EÚ) 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)
- 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.

Changes to previous review:

The following sections were modified:

01/02/03/04/05/07/08/09/10/11/12/13/14/15/16.