

PULICLEAN P270

Revision nr 6 Dated 19/08/2019

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Replaced revision:5 (Dated: 08/07/2016)

Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier U051950004 Code: Product name PULICLEAN P270 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Degrease. Uses advised against: Different uses than those intended. 1.3. Details of the supplier of the safety data sheet CENTRO DISTRIBUZIONE UTENSILI SCPA Name Full address Via delle Gerole, 19 District and Country 20867 CAPONAGO (MB) ITALY tel. +39 02 95746081 fax. + 39 02 95745182 e-mail address of the competent person responsible for the Safety Data Sheet info@cdu.net Product distribution by: Centro Distribuzione Utensili Scpa

1.4. Emergency telephone number

For urgent inquiries refer to

+39 02 95746081 during office hour 8.30-12.30 - 13.30-17.30.

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: Aerosol, category 1

H222 H229

Extremely flammable aerosol. Pressurised container: may burst if heated.

2.2. Label elements

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

Hazard pictograms:



Signal words:

DANGER

Hazard statements: H222 H229 EUH066

Extremely flammable aerosol. Pressurised container: may burst if heated. Repeated exposure may cause skin dryness or cracking.





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Precautionary statements:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.
P102	Keep out of reach of children.
P211	Do not spray on an open flame or other ignition source.

Ingredients according to Regulation (EC) No. 648/2004 30% and more aliphatic hydrocarbons

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, C10-C13, N-AL	KANES, ISOALKAN	ES, CYCLICS, < 2% AROMATICS
CAS -	45,51 ≤ x ≤ 52,51	Asp. Tox. 1 H304, EUH066
EC 918-481-9		
INDEX -		
Reg. no. 01-2119457273-39		
HYDROCARBONS, C3-4		
CAS 68476-40-4	35 ≤ x ≤ 41	Flam. Gas 1 H220, Press. Gas H280, Classification note according to Annex VI to the CLP Regulation: K U
EC 270-681-9		
INDEX 649-199-00-1		
Reg. no. 01-2119474691-32		
2-(2-BUTOXYETHOXY)ETHYL ACE	ETATE	
CAS 124-17-4	3,49 ≤ x ≤ 6,49	
EC 204-685-9		
INDEX -		
Reg. no. 01-2119475110-51		
The full wording of hazard (H) phrases	s is given in section 16	S of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants. Percentage of propellants max: 41,00 %.

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 for the doctor: symptomatically treatment.



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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

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the 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.

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. 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. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 2B

7.3. Specific end use(s) Degrease.

SECTION 8. Exposure controls/personal protection



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8.1.	Control	parameters

	Jarameters	
Regulatory Refe	erences:	
AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2010
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail 2014. / Grenzwerte am Arbeitsplatz
DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT I 2001, 77, 460 - Redaktsiooni jõustumise kp: 01.01.2008
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
IRL	Éire	Code of Practice Chemical Agent Regulations 2011
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
	TLV-ĂCGIH	ACGIH 2018

Threshold Limit Val	HYDROCARBONS, C3-4						
Type	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	1900	800	3800	1600		
VLEP	BEL		1000			SKIN	
TLV	BGR	1900					
VLE	CHE	1900	800	7200	3200		
MAK	CHE	1900	800	7200	3200		
AGW	DEU	2400	1000	9600	4000		
MAK	DEU	2400	1000	9600	4000		
TLV	DNK	1200	500				
VLA	ESP		800				
TLV	EST	1500	800				
HTP	FIN	1900	800	2400	1000		
VLEP	FRA	1900	800				
WEL	GBR	1450	600	1810	750		
TLV	GRC	2350	1000				
GVI	HRV	1450	600	1810	750		
AK	HUN	2350		9400			
OEL	IRL		1000		750		
OEL	NLD	1430					
TLV	NOR	600	250				
NDS	POL	1900		3000			
TLV-ACGIH			1000				(Alcani, C1.C4)



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2-(2-BUTOXYETHOXY)ETHYL ACETATE

Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
MAK	CHE	85	10	127,5	15	
AGW	DEU	67	10	100	15	INHAL
MAK	DEU	85	10	127,5	15	INHAL
MAK	SWE	130	15	250	30	INHAL
Predicted no-effect con	ncentration - PNEC					
Normal value in fresh v	water			0,108	1	mg/l
Normal value in marine	e water			0,0108	I	mg/l
Normal value for fresh	water sediment			0,8	I	mg/kg
Normal value for marin	e water sediment			0,08	1	mg/kg

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.

HAND PROTECTION

None required.

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, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

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	aerosol
Colour	colourless
Odour	characteristic
Odour threshold	Not available
рН	Not applicable
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available



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Lower inflammability limit Upper inflammability limit Lower explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscositv Explosive properties Oxidising properties 9.2. Other information VOC (Directive 2010/75/EC) : Propellant flammability Limit of propellant flammability

Not available Not available Not available Not available Not available Not available 0.70 Ka/l in water: insoluble; in aceton: soluble Not available Not available Not available Not available Not available Not available 93,51 % -651,25 g/litre extremely flammable 1,8-9,5%

SECTION 10. Stability and reactivity

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.

HYDROCARBONS, C3-4 May form flammable mixtures with: strong oxidising agents. Forms explosive mixtures with: strong oxidising agents, nitrates.

10.4. Conditions to avoid

Avoid overheating.

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS Keep away from: strong oxidising agents, strong acids. Avoid exposure to: heat, naked flames, ignition sources. HYDROCARBONS, C3-4 Keep away from: strong oxidising agents. Avoid exposure to: sources of heat, naked flames, overheated surfaces, electrostatic discharges. 2-(2-BUTOXYETHOXY)ETHYL ACETATE Avoid exposure to: heat.

10.5. Incompatible materials Strong reducing or oxidising agents, strong acids or alkalis, hot material.

HYDROCARBONS, C3-4 Avoid contact with: strong oxidising agents. 2-(2-BUTOXYETHOXY)ETHYL ACETATE Avoid contact with: strong oxidising agents.

10.6. Hazardous decomposition products HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS In decomposition develops: carbon oxides. 2-(2-BUTOXYETHOXY)ETHYL ACETATE When heated to decomposition releases: carbon oxides.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using



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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

<u>Metabolism, toxicokinetics, mechanism of action and other information</u> 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 LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

 HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS</td>

 LD50 (Oral)
 5000 mg/kg Rat (OCSE 401)

 LD50 (Dermal)
 2000 mg/kg Rat (OECD 402)

 LC50 (Inhalation)
 5000 mg/l Rat (OCSE 403)

HYDROCARBONS, C3-4 LC50 (Inhalation)

658 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking. Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION Does not meet the classification criteria for this hazard class.

<u>RESPIRATORY OR SKIN SENSITISATION</u> Does not meet the classification criteria for this hazard class.

<u>GERM CELL MUTAGENICITY</u> 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.

<u>STOT - SINGLE EXPOSURE</u> Does not meet the classification criteria for this hazard class.

<u>STOT - REPEATED EXPOSURE</u> Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth.

EN



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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

2-(2-BUTOXYETHOXY)ETHYL ACETATE	
LC50 - for Fish	50 mg/l/96h
EC50 - for Crustacea	430 mg/l/48h Daphnia magna
HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, LC50 - for Fish	CYCLICS, < 2% AROMATICS > 1000 mg/l/96h Onchorhynchus mykiss (OECD 203)
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Scenedesmus subspicatus (OECD 201)
HYDROCARBONS, C3-4	
LC50 - for Fish	24,11 mg/l/96h (QSAR calculation - butane - ECOSAR Program v1.00)
EC50 - for Crustacea	16,33 mg/l/48h Daphnia (isobutane, calculated with ECOSAR Program v1.00. EPI SuiteTM v4.00)
12.2. Persistence and degradability	
2-(2-BUTOXYETHOXY)ETHYL ACETATE	
Rapidly degradable	
HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, Solubility in water	CYCLICS, < 2% AROMATICS Insoluble
Rapidly degradable	
HYDROCARBONS, C3-4	
Solubility in water	24,4 - 60,4 mg/l
Rapidly degradable	
12.3. Bioaccumulative potential	
2-(2-BUTOXYETHOXY)ETHYL ACETATE	
Partition coefficient: n-octanol/water	1,29
BCF	< 100
HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, Partition coefficient: n-octanol/water	CYCLICS, < 2% AROMATICS 3
HYDROCARBONS, C3-4	
Partition coefficient: n-octanol/water	2,03058 Log Kow (QSAR, KOWWIN, Butane)
12.4. Mobility in soil Information not available.	



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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

14.1. UN number

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
IATA:	Class: 2	Label: 2.1



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: --

Limited Quantities: 1 L

Tunnel restriction code: (D)



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IMDG: IATA:

Special Provision: -	
EMS: F-D, S-U	I
Cargo:	I
Pass.:	I
Special Instructions:	,

Limited Quantities: 1 L Maximum quantity: 150 Kg Maximum quantity: 75 Kg A145, A167, A802

Packaging instructions: 203 Packaging instructions: 203

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

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P3a.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 40

<u>Substances in Candidate List (Art. 59 REACH)</u> 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 Information not available.

Regulation (EC) No. 648/2004 Ingredients according to Regulation (EC) No. 648/2004.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture.

SECTION 16. Other information

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

Flam. Gas 1	Flammable gas, category 1
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3



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Press. Gas	Pressurised gas
Asp. Tox. 1	Aspiration hazard, category 1
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H280	Contains gas under pressure; may burst if heated.
H304	May be fatal if swallowed and enters airways.
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
- 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
- Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 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)
- 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



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- 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:

02 / 11 / 15.