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	Safety data sheet				
SECTION 1. Identification	n of the substance/mixture and of the company/u	ndertaking			
1.1. Product identifier Code:	F00006 - (05220 e seg.)				
Product name	SHAMPOO PER AUTO				
	e substance or mixture and uses advised against r-based cleaner for the bodywork and mechanical industry.				
1.3. Details of the supplier of the s					
Name Full address	PIGAL s.p.a. Via G. Rossa, 2				
District and Country	40053 VALSAMOGGIA - Crespellano (BO)				
		ITALIA			
		Tel. +39 051969068			
	Fax +39 051969353				
e-mail address of the competent per					
responsible for the Safety Data Shee	et health.safety@pigal.it; pigalab@pigal.it				
1.4. Emergency telephone number	·				
For urgent inquiries refer to	+39 051969068 ore ufficio (8.30-13; 14-17.30) 118	(contattare il centro antiveleni più			
	vicino)				
SECTION 2. Hazards ider	ntification.				
2.1. Classification of the substanc	e or mixture.				
The product is close; find on borough	the numerical set forth in EQ Deviletier (1970/2000	(CLD) (and subsequent smandmarks and			
supplements). The product thus requir	us pursuant to the provisions set forth in EC Regulation 1272/2008 es a safety datasheet that complies with the provisions of EC Regulation the risks for health and/or the environment are given in sections 11 and	n 1907/2006 and subsequent amendments.			
2.1.1. Regulation 1272/2008 (CLP)	and following amendments and adjustments.				
Lineard alass West Concern 12 - 19 - 19					
Hazard classification and indication: Eye Dam. 1	H318				
Skin Irrit. 2	H315				
2.1.2. 67/548/EEC and 1999/45/EC Danger Symbols:	Directives and following amendments and adjustments.				
Xi					
R phrases: 41					

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

2.2. Label elements.

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

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lazard pictograms:					
Signal words:	Danger				
Hazard statements:					
H318 H315	Causes Causes	serious eye damage. skin irritation.			
Precautionary statement	s:				
P101 P102 P264 P280 P309+P311	Keep ou Wash th Wear pr	al advice is needed, have produ it of reach of children. e hands thoroughly after handli otective gloves and protective c sed or if you feel unwell: Call a F	ng. lothing, eye protection.	physician.	
Contains:	Sodium Benzene	C10-16 alkylethoxy sulphate esulfonic acid,C10-13-alkyl deriv	vs., sodium salts		
2.3. Other hazards.					
Information not available					
SECTION 3. Co	mpositio	n/information on ingr	edients.		
3.1. Substances.					
Information not relevant.					
3.2. Mixtures.					
Contains:					
Identification. Sodium C10-16 alkyle	thoxy sulph		Classification 67/54		
CAS EC INDEX		8,5 - 10	Xi R38, Xi R41	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412	
Reg. no. 01-21194886					
Benzenesulfonic acid sodium salts	l,C10-13-alkı	yl derivs.,			

P	GA	Ls	SPA
		2	

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CAS. 68411-30-3 EC. 270-115-0	4,5 - 5	Xn R22, Xi R38, Xi R41	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
INDEX Reg. no. 01-2119489428-22			
ETHANOLAMINE			
ETHANOLAMINE			
CAS. 141-43-5	0,7 - 0,8	C R34, Xn R20/21/22	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, STOT SE 3 H335
EC. 205-483-3			
INDEX. 603-030-00-8			
Reg. no. 01-2119486455-28			
HYDROCHLORIC ACID			
CAS	0,4 - 0,45	C R34, Xi R37, Note B	Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335, Note B
EC. 231-595-7			
INDEX. 017-002-01-X			
Reg. no. 01-2119484862-27			

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet. T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = ExtremelyFlammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances, see chap. 11.

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

5.2. Special hazards arising from the substance or mixture.



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HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

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

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. Check incompatibility for container material in section 7. 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 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).



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Information not available. **SECTION 8. Exposure controls/personal protection.** 8.1. Control parameters. Regulatory References: United Kingdom EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended). Éire Code of Practice Chemical Agent Regulations 2011. OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. **TLV-ACGIH ACGIH 2012** Sodium C10-16 alkylethoxy sulphate Predicted no-effect concentration - PNEC. mg/kg Normal value for the terrestrial compartment 0,946 0,24 Normal value in fresh water mg/l Normal value for water, intermittent release 0,071 mg/l Normal value in marine water 0,024 mg/l Normal value for fresh water sediment 5,45 mg/kg 0 545 Normal value for marine water sediment mg/kg 10000 Normal value of STP microorganisms mg/l Health - Derived no-effect level - DNEL / DMEL Effects on Effects on workers consumers. Acute local Route of exposure Acute local Chronic local Chronic Chronic local Chronic Acute systemic Acute systemic systemic systemic Oral. VND 15 mg/kg bw/d Inhalation. VND 52 mg/m3 VND 175 mg/m3 1650 mg/kg 2750 mg/kg VND VND Skin. bw/d bw/d Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts Predicted no-effect concentration - PNEC. Normal value for the terrestrial compartment 8,1 0,268 mg/kg Normal value in fresh water mg/l Normal value for water, intermittent release 0,0167 ma/l Normal value in marine water 0,0268 mg/l Normal value of STP microorganisms 3,43 mg/l Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Oral VND 0,85 mg/kg bw/d 3 mg/m³ Inhalation. VND VND 12 12 mg/m³ 85 mg/kg 170 mg/kg Skin. VND VND bw/d bw/d **ETHANOLAMINE Threshold Limit Value.** TWA/8h STEL/15min Country Туре ma/m3 ma/m3 ppm ppm TLV-ACGIH 7.5 3 15 6 OEL IRL 2,5 7,6 3 SKIN 1

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OEL	EU	2,5	1	7,6	3	SKIN		
WEL	UK	2,5	1	7,6	3	SKIN		
Predicted no-effect concentratio	n - PNEC.							
Normal value for the terrestrial of Normal value in fresh water Normal value for water, intermitt Normal value in marine water Normal value for fresh water set Normal value for marine water so Normal value of STP microorgan Health - Derived no-effect	ent release diment ediment nisms	MEL		0,035 0,085 0,025 0,0085 0,425 0,0425 100	Effects on	mg/kg mg/l mg/l mg/kg mg/kg mg/l		
	consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	3,75 mg/kg				
Inhalation.			2 mg/m3	VND			3,3 mg/m3	VND
Skin.			VND	0,24 mg/kg			VND	1 mg/kg
HYDROCHLORIC ACID								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	8	5	15	10			
TLV-ACGIH				2,9 (C)	2 (C)			
Predicted no-effect concentratio	n - PNEC.							
Normal value in fresh water Normal value for water, intermitt Normal value in marine water Normal value of STP microorgan	nisms			0,036 0,045 0,036 0,036		mg/l mg/l mg/l mg/l		
Health - Derived no-effect Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
Inhalation.				systemic	VND	systemic 15 mg/m3	VND	systemic 8 mg/m3
Inhalation. egend:					VND	15 mg/m3	VND	

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



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SKIN PROTECTION

Wear category II 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 a hood visor or protective visor combined with airtight 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 B 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.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range.	liquid yellowish mild Not available. 8,5 Not available. 100 °C. Not available.
Evaporation Rate 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.	1,000 Kg/l
Solubility	miscible with water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information.	

VOC (Directive 1999/13/EC) :	0,70 %	-	7,00	g/litre.
VOC (volatile carbon) :	0,28 %	-	2,75	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.



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ACIDO CLORIDRICO IN SOLUZIONE: La soluzione di HCI in acqua è un acido forte, reagisce violentemente con le basi ed è corrosiva.

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.

HYDROCHLORIC ACID: risk of explosion on contact with alkaline metals, aluminium powder, hydrogen cyanide, alcohol. ETHANOLAMINE: can react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong mineral acids, vinyl acetate, cellulose nitrate.

10.4. Conditions to avoid.

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

ETHANOLAMINE: avoid exposure to air and sources of heat.

10.5. Incompatible materials.

HYDROCHLORIC ACID: alkalis, organic substances, strong oxidants and metals. ETHANOLAMINE: iron, strong acids and strong oxidising agents.

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.

HYDROCHLORIC ACID: above decomposition temperature hydrochloric acid fumes may develop. ETHANOLAMINE: nitrogen oxides, carbon oxides.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

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. This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory trait. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

ETHANOLAMINE - The product is corrosive to the eyes, extremely irritating to the skin and mucous membranes and can cause serious damage.

Sodium C10-16 alkylethoxy sulphate - Irritating to the skin. Severely irritating to eyes.

Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts - Irritating to the skin. Severely irritating to eyes.

HYDROCHLORIC ACID



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LC50 (Inhalation). 45,6 mg/l Ratto/5min

ETHANOLAMINE LD50 (Oral). 1515 mg/kg Rat LD50 (Dermal). 2504 mg/kg Rat LC50 (Inhalation). 1,48 mg/l Rat (4h)

Sodium C10-16 alkylethoxy sulphate LD50 (Oral). 4100 mg/kg Rat LD50 (Dermal). > 2000 mg/kg Rat

Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts LD50 (Oral). 1080 mg/kg Rat LD50 (Dermal). > 2000 mg/kg Rat

SECTION 12. Ecological information.

12.1. Toxicity.

HYDROCHLORIC ACID LC50 - for Fish. 282 mg/l/96h Pesce

ETHANOLAMINE LC50 - for Fish. 349 mg/l/96h Pesce EC50 - for Crustacea. 65 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. 2,5 mg/l/72h Alga

Sodium C10-16 alkylethoxy sulphate LC50 - for Fish. 1,67 mg/l/96h EC50 - for Algae / Aquatic Plants. 47,3 mg/l/72h Chronic NOEC for Fish. 0,268 mg/l Pesce (96 d) Chronic NOEC for Crustacea. 1,41 mg/l Dafnia (21 d) Chronic NOEC for Algae / Aquatic Plants. 3,1 mg/l Chlorella kessleri (15 d)

Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts LC50 - for Fish. 1,67 mg/l/96h EPA OPPTS Fish Chronic NOEC for Fish. 0,268 mg/l (96 d) Chronic NOEC for Crustacea. 1,41 mg/l Daphnia Magna Chronic NOEC for Algae / Aquatic Plants. > 4 mg/l (28 d)

12.2. Persistence and degradability.

ETHANOLAMINE - Biodegradation > 90% (21 days). Sodium C10-16 alkylethoxy sulphate 30-60 % - Biodegradation (EU - 28 d) = 100%; (OECD 301B - CO_2 - 28 d) = 85%. Benzenesulfonic acid,C10-13-alkyl derivs., sodium salts - biodegradability (122 d) = 70-99%.

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ETHANOLAMINE Rapidly biodegradable.		
Sodium C10-16 alkylethoxy sulphate Rapidly biodegradable.		
Benzenesulfonic acid,C10-13-alkyl de Rapidly biodegradable. Mixture of surfactants: biodegradabilit 12.3. Bioaccumulative potential.		
ETHANOLAMINE - Slightly bioaccum	nulative.	
Sodium C10-16 alkylethoxy sulphate Partition coefficient: n-octanol/water. 0,3 mg/l BCF. < 3		
Benzenesulfonic acid,C10-13-alkyl de Partition coefficient: n-octanol/water. 3,32 mg/l BCF. < 1000 12.4. Mobility in soil.	erivs., sodium salts	
ETHANOLAMINE - The product has v 12.5. Results of PBT and vPvB as		
On the basis of available data, the pro 12.6. Other adverse effects.	oduct does not contain any PBT or vPvB in percentage greater than 0,1	%.
Information not available.		

SECTION 13. Disposal considerations.

The valid EEC waste code are largely source-related; the manifacturer is, therefore, unable to specify waste code for products used in various sectors. CER-code (suggested): 20 01 29.

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.

Avoid littering. Do not contaminate soil, sewers and waterways.

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.

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SECTION 15. Regulatory	information.			
15.1. Safety, health and environm	ental regulations/legislation specific for the substance or mixture.			
Seveso category.	None.			
Restrictions relating to the product or	contained substances pursuant to Annex XVII to EC Regulation 1907/20	<u>06.</u>		
Product. Point.	3			
Substances in Candidate List (Art. 59	<u>REACH).</u>			
None. Substances subject to authorisarion (A				
None.				
	porting pursuant to (EC) Reg. 649/2012:			
None.	bining pursuant to (EG) (Keg. 043/2012.			
Substances subject to the Rotterdam	Convention:			
None.				
Substances subject to the Stockholm	Convention:			
None.				
Healthcare controls.				
Workers exposed to this chemical ag workers' health and safety are modes	ent must not undergo health checks, provided that available risk-assess t and that the 98/24/EC directive is respected.	ment data prove that the risks related to the		
Product not intended for uses provide	d for by Dir. 2004/42/CE.			
Ingredients according to Regulation (I	EC) No 648/2004			
less than 5 % non-ionic surfactants				
5 % or over but less than 15 %	anionic surfactants			
15.2. Chemical safety assessmen	t.			
No chemical safety assessment has b	been processed for the mixture and the substances it contains.			
-				

SECTION 16. Other information.

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



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Met. Corr. 1	Substance or mixture corrosive to metals, category 1	
Acute Tox. 4	Acute toxicity, category 4	
Skin Corr. 1B	Skin corrosion, category 1B	
Eye Dam. 1	Serious eye damage, category 1	
Skin Irrit. 2	Skin irritation, category 2	
STOT SE 3	Specific target organ toxicity - single exposure, category 3	
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H315	Causes skin irritation.	
H335	May cause respiratory irritation.	
H412	Harmful to aquatic life with long lasting effects.	

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R20/21/22	HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R22	HARMFUL IF SWALLOWED.
R34	CAUSES BURNS.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.

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

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 TWA: Time-weighted average expose VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioact 				
- WGK: Water hazard classes (German				
GENERAL BIBLIOGRAPHY				
1. Directive 1999/45/EC and following				
 Directive 67/548/EEC and following Regulation (EC) 1907/2006 (REACH 				
4. Regulation (EC) 1272/2008 (CLP) or	f the European Parliament			
5. Regulation (EC) 790/2009 (I Atp. CL				
6. Regulation (EC) 453/2010 of the Eu 7. Regulation (EC) 286/2011 (II Atp. C				
8. Regulation (EC) 618/2012 (III Atp. C				
9. The Merck Index 10th Edition				
10. Handling Chemical Safety	Ob and other and			
 Niosh - Registry of Toxic Effects of INRS - Fiche Toxicologique (toxico) 				
13. Patty - Industrial Hygiene and Toxic				
14. N.I. Sax - Dangerous properties of				
15. ECHA website				
Note for users:				
The information contained in the pres	ent sheet are based on our own knowledge on the date of the according to each specific use of the product.	e last version. Users must verify the suitability and		
	according to each specific use of the product. as a guarantee on any specific product property.			
	o our direct control; therefore, users must, under their own resp	oonsibility, comply with the current health and safety		
laws and regulations. The producer is	aws 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 / 06 / 08 / 09 / 10 / 11 / 12 / 15 / 16.