

Hylomar M, L, H, Aerograde Ultra PL32A

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

1.1 Product identifier

Trade Name	Hylomar M Hylomar L Hylomar H Hylomar Aerograde Ultra PL32A
BAG-Register number (CH)	CPID: 347576-23 Hylomar L & M - UFI: V800-D0RQ-R00F-DXPU Hylomar H - UFI: VC00-W0F4-100Y-198W


1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Sealant
Uses advised against	All applications that are not explained in this technical data sheet.
Field for application [SU]	SU22 – Commercial use: Public domain (administration, education, entertainment, services, trade)

1.3 Details of the supplier of the safety data sheet

Supplier / Importer	Hylomar Ltd.	Wisabax AG Kleb- und Dichtstoffe
Address	Hylo House, Cale Lane, New Springs, Wigan, Greater Manchester, UK, WN2 1JT	Grossmatte 21 CH-6014 Luzern
Phone	+44 (0)1942 617 000	+41 (0)41 250 18 18
Email	info@hylomar.co.uk	info@wisabax.ch
URL	www.hylomar.com	www.wisabax.ch
Information contact		Technical Dept. - Mr B. Wicki Environment Dept. - Mrs E. Svets

1.4 Emergency telephone number

24h emergency number (just possible in switzerland)	Tel. 145	
Tox Info Suisse (ancient swiss toxicological informations centre) For emergencies from all the countries 24h accessible in german, french, italian oder english. For not urgent cases see www.toxinfo.ch.	Tel. +41 (0)44 251 51 51	

2. Hazards identification

2.1 Classification of the substance or mixture according to (EC) Nr. 1272/2008 (CLP).

Hazard class	Hazard category	Hazard warnings
Flam. Liq.	2	H225 Highly flammable liquid and vapour.
Eye Irrit.	2	H319 Causes serious eye irritation.
STOT SE	3	H336 May cause drowsiness or dizziness.

2.2 Labelling according to Regulation (EC) Nr. 1272/2008 (CLP)

Pictograms(e)	 
Signal word(s)	Danger

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Hazard warning(s) [H-statements]	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Safety instruction(s) [P-statements]	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust / fume / gas / mist / vapours / spray. P280 Wear protective gloves / protective clothing/eye protection/face protection. P370 + P378 In case of fire: Use water mist, carbon dioxide, or alcohol-resistant foam to extinguish. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Special marking(s) [EUH-Phrases]	Repeated exposure may cause skin dryness or cracking.
Contains	

2.3 Other hazards

Persons suffering from allergic reactions to this product should avoid contact with de product.

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

3. Composition/information on ingredients

3.1 Substances

This product is a mixture, for more see section 3.2.

3.2 Description of the mixture

Mixture of the substances listed below with harmless additions.

Content: 25 % - 50 %

CAS No.: 67-64-1 EG No.: 200-662-2 Index No.: 606-001-00-8 Reg. No. (REACH): 01-2119471330-49-XXXX	acetone [25/Q59,1/3,4]	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066
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Note: H-phrases and abbreviations are detailed in section 16.

4. First aid measures

4.1 Description of first aid measures

General information	If medical advice is required, have this safety data sheet, the packaging or the label ready. Consult doctor in case of complaints. Observe the general rules of first aid measures. Refresh occasionally your knowledge.
Following inhalation	Remove affected person from the danger area. Supply fresh air. Loosen restrictive clothing. Place in a resting position. Consult a doctor depending on the symptoms. If not breathing provide immediately artificial respiration and obtain medical treatment. In case of unconsciousness bring person in recovery position and take medical advice.
Following skin contact	Remove contaminated clothing immediately. Wash skin with much water and soap. Consult a doctor depending on the symptoms, if possible, show this container or label.
Following eye contact	Remove contact lenses, if possible. Rinse thoroughly with water and consult a doctor. Present this safety data sheet or product label.

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Following ingestion	Rinse mouth thoroughly with water. Keep airways free. Telephone the emergency number or consult a doctor. If it is possible, present this safety data sheet or product label. Do not induce vomiting!
4.2 Most important symptoms and effects, both acute and delayed In certain cases, symptoms of intoxication may only appear after a longer period of time/after several hours.	
4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment	

5. Firefighting measures

5.1 Extinguishing media

Always adapt firefighting measures to the surroundings and the size of the fire.

Suitable extinguishing media: Water spray jet, Dry powder fire extinguishers, Alcohol-resistant foam, Carbon dioxide

Unsuitable extinguishing media: Full water jet

5.2 Special hazards arising from the substance or mixture

Combustible. Formation of explosive mixtures possible with air.

Formation of toxic gases is possible during heating or in case of fire:

Carbon oxide. Toxic gases. Isocyanat.

5.3 Advice for fire-fighters

Do not inhale combustion gases. Wear breathing apparatus with own air supply. Wear full protection depending on fire class. Use water spray to cool endangered containers. Dispose contaminated fire extinguishing water according to official directives.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition – No smoking. Arrange for sufficient air supply. Avoid eye and skin contact as well as inhalation. Keep away unnecessary people from the scene of an accident; ideally contrary to the wind direction. Wear protective clothing (see Section 8).

6.2 Environmental precautions

Avoid further leakage or release, if it's possible without risk. Do not empty into drains. Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Absorb bigger quantities with fluid-binding material (e.g. universal binder, sand, diatomaceous earth, sawdust) and dispose of according to section 13.

6.4 Reference to other sections

Personal protective equipment see section 8. Waste disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Keep away from sources of ignition – No smoking. Avoid inhaling the vapors. Ensure good ventilation. If necessary suction measures at the workplace or on the processing machines required. Take measures against electrostatic charge. Avoid eye and skin contact. Open and handle receptacle with care. Eating, drinking, smoking, as well as food-storage, is prohibited in workspace. Notes note on the packaging and current technical data sheet. Use working methods according to operating instructions.

Avoid release into the environment. Put on appropriate protective equipment (see section 8). Wash contaminated clothing before reuse. General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work. Take off contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place.

To avoid the unauthorized and children and kept in a safe place. Do not store warnings in corridors and stairwells. Store only in original container and keep locked up. Store this material from incompatible materials. Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.

Recommendation: Solvent resistant floor. Protect them from direct sunlight and heat. Protect the product against moisture. Recommended storage temperature: 5-25°C.

7.3 Specific end uses

Adhesive - See technical data sheet and the product imprint.

8. Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

CAS No.: 67-64-1 EG No.: 200-662-2 Index No.: 606-001-00-8 Reg. No. (REACH): 01-2119471330-49-XXXX	acetone CH: MAC: 500 ppm (1200 mg/m ³) CH: STEL: 1000 ppm (2400 mg/m ³) EU: TWA: 500 ppm (1210 mg/m ³) DE: TRHS urine: 50 mg/l (end of exposure or end of shift) [25/QS,1/3,4]
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MAK = Maximum Workplace Concentration (TLV = Threshold Limit Value)

CH It's a swiss limit, edited by SUVA. If there is no limit from SUVA it's a work place limit (AGW) from Germany or another European state.

CAS No.: 67-64-1 EG No.: 200-662-2 Index No.: 606-001-00-8 Reg. No. (REACH): 01-2119471330-49-XXXX	acetone employee: DNEL: 186 mg/kg bw/day [dermal exposure route, long-term, systemic effects]; employee: DNEL: 2420 mg/m ³ [inhalative, short-term, local effects]; employee: DNEL: 1210 mg/m ³ [inhalative, long-term, systemic effects]; consumer: DNEL: 62 mg/kg bw/day [oral, long-term, systemic effects]; consumer: DNEL: 62 mg/kg bw/day [dermal exposure route, long-term, systemic effects]; consumer: DNEL: 200 mg/m ³ [inhalative, long-term, systemic effects]; environment: PNEC: 1.06 mg/l [sea water]; environment: PNEC: 10.6 mg/l [fresh water]; environment: PNEC: 30.4 mg/l [sediment, fresh water]; environment: PNEC: 3.04 mg/l [sediment, seawater]; environment: PNEC: 29.5 mg/l [soil]; environment: PNEC: 100 mg/l [microorganisms in wastewater treatment plants] [25/Q59/3]
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8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation, e.g. by local suction, general exhaust air.

Minimize the risk of inhalations of vapours.

If possible, work with completely self-contained equipment.


Comply with the workplace exposure limits.

If limits can't be adhered to, use appropriate respiratory protection.

8.2.2 Personal protective equipment

General data	Select personal protective equipment according to the CEN standards; discuss protective equipment with the supplier.
Eye/face protection	Safety glasses with side protection shield (EN 166).
Hand-/Body protection	Use chemical-resistant protective gloves according to EN 374.
Protective clothing	Wear suitable protective clothing, e.g long-sleeved clothes and safety shoes according to EN ISO 20345.
Respiratory protection	In case of insufficient ventilation or if limit values cannot be complied, use air respirator. Filters type AXBEK in accordance with EN 14387. Follow the wear time limits for breathing apparatus.

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Hygiene measures	Do not eat, drink or smoke while at work. Wash hands before breaks and after work.
Thermal hazards	Not applicable.
	On the basis of the contents and our experience the following non-binding recommendations for the selection of the material of the protective gloves (minimum layer thickness: 0.4 mm):
Recommended glove material:	Butyl rubber (Butyl)
Inappropriate glove material:	Textile Materials
<p>The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the materials used for gloves cannot be predetermined; it is therefore necessary to check this before using the product.</p> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>	
<p>8.2.3 Environmental exposure controls More information that is detailed is not available yet.</p>	

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	blue
Density	Ca. 0.95 g/ml (Hylomar L) Ca. 1.03 g/ml (Hylomar M) Ca. 1.10 g/ml (Hylomar H)
Viscosity	Not determined
Odour	solvent like, sweetish
pH-level	6
Melting point/freezing point	-95 °C
Initial boiling point/boiling range	56 °C
Decomposition temperature	Not determined
Rate of evaporation	Not determined
Flashpoint	-17 °C
Auto-ignition temperature	465 °C
Lower explosive limits	2.5% Vol.-%
Upper explosive limits	13 Vol.-%
Vapour pressure	240 hPa (20°C)
Vapour density (Air = 1)	2 (20°C)
Explosive properties	In use, may form flammable/explosive vapour-air mixture.
Oxidising properties	Not determined

9.2 Other information

Solubility in / Miscibility with water.	Well miscible with water
Solubility in / Miscibility in	
Partition coefficient n-Octanol/Water	Not determined
Conductivity	Not determined
VOC-content (EU)	Ca. 46% (Hylomar L)
VOC-content (CH)	Ca. 42% (Hylomar M) Ca. 29% (Hylomar H)

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10. Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

The product is stable when properly stored and handled.

10.3 Possibility of hazardous reactions

No effects are known if used as intended.

10.4 Conditions to avoid

Heating, open flame, ignition sources.
Electrostatic charge.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

During thermal decomposition or combustion, carbon oxides and other toxic gases and vapours may be released. In case of fire or extreme heat, see section 5.2.

11. Toxicological information

11.1 Information on toxicological effects

General data	The exposure to the substance or mixture may cause adverse health effects.
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Information on probable exposure routes	
By inhalation:	Vapours may cause drowsiness and dizziness. Vapours can irritate the respiratory system in high concentration.
By skin contact:	Repeated contact may cause dry or cracked skin.
By eye contact:	H319 Causes serious eye irritation.
By swallowing:	Due to the product's form, this is unlikely. However, ingestion may cause irritation and discomfort.
Symptoms:	Aspiration can lead to pulmonary edema and pneumonia. Headaches, nausea, vomiting. Causes serious eye irritation. Irritant effect of vapours on the mucous membranes. Eye contact may cause irritation, redness, tearing or blurred vision. May cause: swelling, erythema (redness). Vapours may cause drowsiness and dizziness. Vapours may cause drowsiness and dizziness.

11.2. Toxicological information of hazardous ingredients

CAS No.: 67-64-1 EG No.: 200-662-2 Index No.: 606-001-00-8 Reg. No. (REACH): 01-2119471330-49	acetone acute toxicity: LD50: 5800 mg/kg [oral, rat, OECD 401]; acute toxicity: LD50: 3000 mg/kg [oral, mouse]; acute toxicity: LD50: 6665 mg/kg [oral]; acute toxicity: LD50: >15800 mg/kg [dermal exposure route, rat]; acute toxicity: LC50: 76 mg/l/4h [inhalative, rat, vapours]; corrosive/irritant effect on the skin: non-irritant, wiederholter Kontakt kann zu spröder oder rissiger Haut führen [Guinea pig]; serious eye damage/irritation: irritant [rabbit, OECD 405, Eye Irrit. 2]; respiratory/skin sensitization: not sensitising [Guinea pig, OECD 406]; germ cell mutagenicity: negative [mouse, OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)]; germ cell mutagenicity: negative [Salmonella typhimurium, OECD 471 (Bacterial Reverse Mutation Test)]; germ cell mutagenicity: negative [mammals, OECD 473 (In Vitro Mammalian Chromosome Aberration Test)]; symptoms: unconsciousness, vomiting, headaches, gastrointestinal complaints, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness, drowsiness. specific target organ toxicity - repeated exposure (STOT RE): NOAEL, 900 mg/kg bw/d [oral, rat, OECD (Repeated Dose 90-Day Oral Toxicity Study in Rodents)] [24/Q2/2]
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12. Ecological information

12.1 Toxicity

Aquatic toxicity Germany (Self-classification)	WGK 1 Slightly hazardous to water
The product is not classified as dangerous for the environment.	

12.2 Persistence and degradability

The product is biodegradable in part only.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water	
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12.4 Mobility in soil

No information is available.

12.5 Results of PBT and vPvB assessment

See section 2.3.

12.6 Other adverse effects

Do not allow product to reach ground water, water course or sewage system.

12.7 Additional ecotoxicological information

CAS No.: 67-64-1 EG No.: 200-662-2 Index No.: 606-001-00-8 Reg. No. (REACH): 01-2119471330-49-XXXX	acetone acute toxicity, fish: LC50: 5540 mg/l/96h [Oncorhynchus mykiss]; acute toxicity, fish: LC50: 7500 mg/l/96h [Leuciscus idus]; acute toxicity, fish: LC50: 5540-8300 mg/l/96h [Lepomis macrochirus]; acute toxicity, daphnia: EC50: 6100-12700 mg/l/48h [Daphnia magna]; acute toxicity, algae: IC50: 7500 mg/l/8d [Scendesmus quadricauda]; acute toxicity, algae: EC50: 7500 mg/l/96h [Selenastrum capricornutum]; acute toxicity, algae: NOEC/NOEL: 3400 mg/l/48h [Pseudokirchnerie lla subcapitata]; persistence and degradability: easily biodegradable [91%/28d, OECD 301 B]; bioaccumulative potential: non-bioaccumulative [partition coefficient: Log Pow: -0.24, BCF: 0.19]; acute bacteriotoxicity: EC5:1700 mg/l/16h[Pseudomonas putida]; acute bacteriotoxicity: EC5: 530 mg/l/8d [Microcystis aeruginosa]; other information: [BOD5, 1900 mg/g; COD, 2100 mg/g]
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13. Disposal considerations

13.1 Waste treatment methods

Waste disposal according to official state regulations.

Waste treatment options: 08 04 09 – Waste adhesives and sealants containing organic solvents or other dangerous substances.
Contaminated packages: Disposal must be made according to official regulations. If possible empty packaging completely. Uncontaminated and cleaned packaging can be recycled. Packagings that cannot be cleaned are to be disposed off in the same manner as the product. Alternatively, it can be used if necessary following waste code: 15 01 10 – Packing that contains the residues of hazardous materials or is contaminated through hazardous materials.
The waste code numbers mentioned are recommendations based on the probable use of the product. The particular application and local disposal situation obtaining for the user may lead to other waste codes being assigned as well.

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14. Transport information

14.1 UN-Number:

ADR, RID, ADN, IMDG, IATA: **UN 1133**

14.2 UN proper shipping name

ADR, RID, ADN: UN 1133 - ADHESIVES (Special provision 640D)
IMDG, IATA: ADHESIVES

14.3 Transport hazard class(es):

ADR, RID, ADN, IMDG, IATA: 3

ADR, RID, ADN: Flammable liquids
IMDG, IATA: Flammable liquids



14.4 Packing group:

ADR, RID, ADN, IMDG, IATA: II

14.5 Environmental hazards:

Dangerous to the environment: No
Marine pollutant: No

14.6 Special precautions for user:

Kemmler number:	33
EMS number:	F-E, S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable, because of general cargo and not bulk cargo.

14.8 Additional information:

ADR: LQ – Limited Quantities:	ADR: 1 L
RID: LQ – Limited Quantities:	RID: 5 L
ADR / RID: Tunnel restriction code:	D/E
UN „Model Regulation“:	UN 1133, ADHESIVES, 3, II
IATA: LQ – Limited Quantities:	IATA: 0.5 L (inner packaging) / 2 L (outer packaging)

15. Regulatory information

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

Classification and labelling see section 2.

The classification is based on the calculation method, unless otherwise stated.

Classification based on test data: Flam. Liq. 2, H225

Further national and further regulations, limitations and legal requirements

VOC content according to swiss VOC regulation (VOCV) see section 9.2.
Water hazard class (WGK) see section 12.1.
Observe employment restrictions for young people (CH: SR 822.115).
Chemicals regulation (ChemV), ordinance on chemicals risk reduction (ChemRRV), Luftreinhalte-Verordnung (LRV), Ordinance on protection against major accidents (StFV), professional association principles/industrial medicine regulations

15.2 Chemical Safety Assessment

A chemical safety assessment is not provided for mixtures.

16. Other information

Hazards used in the document (H-phrases):

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

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Other recommended sources for more information:

- Federal Office of Public Health (Switzerland): www.bag.admin.ch (German/French/Italian/English)

List of relevant abbreviations that may be used in the document:

Abbreviation	Full text / Meaning
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route (= European agreement concerning the international carriage of dangerous goods by road)
AGW, Spb.-Üf.	AGW = Arbeitsplatzgrenzwert (occupational limit value), Spb.-Üf. = Spitzenbegrenzung (peak limit) – Überschreitungsfaktor (exceedance factor) (1 bis 8) and category (I, II) for short-term values (TRGS 900, Germany)
AOEL	Acceptable Operator Exposure Level
Aquatic Acute	Hazardous to the aquatic environment - Acute
Aquatic Chronic	Hazardous to the aquatic environment – Chronic
Asp. Tox.	Aspiration hazard (Danger when inhaling)
ATE	Acute Toxicity Estimates
BAG	Office for health (Bundesamt für Gesundheit, Schweiz)
BAT	Biological tolerance values at the workplace (Biologische Arbeitsstofftoleranzwerte, Schweiz)
BG	Trade association (Berufsgenossenschaft)
BGR	Trade association regulations (Berufsgenossenschaftliche Regeln)
BGV	Trade association regulations (Berufsgenossenschaftliche Vorschrift)
Carz.	Carcinogenic substance
CAS-Nr.	Chemical Abstracts Service
CH	Swiss confederation (from the latin Confoederatio Helvetica)
CH: MAK:	Swiss limit of maximum allowable concentration, issued by the Swiss accident insurance fund. (Schweizerischen Unfallversicherungsanstalt (SUVA))
CLP	Classification, Labelling and Packaging (REGULATION (EG) Nr. 1272/2008)
CPID	Chemical Product Identification.
DMEL	Derived Minimum Effect Level
DNEL	Derived No Effect Level
EG-Nr.	Substances of the EC material inventory, consisting of 7 digits (Syntax: XXX-XXX-X). Comprises waste materials (EINECS), new substances (ELINCS) as well as the No-Longer-Polymers-Liste (NLP-Liste).
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Irrit.	Eye irritant, depending on the category Eye irritation possible to serious eye damage.
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG-Code	International Maritime Code for Dangerous Goods
Index-Nr.	Indexation of dangerous substances of appendix 5 in the VO(EG)1272/2008 (or annex I of directive 67/548/EWG) with the following syntax: XXX-XXX-XX-X
LC	Lethal concentration
LD	Lethal (fatal) dose
LD50	Lethal dose, 50%
Met. Corr.	On metal corrosive acting substance or mixture
Muta.	Substance with germ cell mutagenicity
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
Ozone	Hazardous for the ozone layer
PBT	Persistent, bioaccumulative, and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Verordnung (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)
Repr.	Reproductive toxicity
Resp. Sens.	Sensitising for respiratory tract
SCL	Specific concentration limits
Skin Irrit.	Skin irritant – corrosive/irritant to skin
Skin Sens.	Sensitising for the skin
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
TRGS	Technical rules on hazardous substances
VOC	Volatile organic compounds
VOCV	VOC-regulation (Swiss)
vPvB	Very persistent and very bioaccumulative

Department issuing data specification sheet: See section 1.3.

This safety data sheet replaces all previous versions.

Disclaimer: The specifications rest on the today's stand of our knowledge. It does not constitute a legally binding assurance of specific product properties.

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