

according to 2001/58 EC

2732516

Reviewed on: 01/11/2021

Printing date: 01/11/2021

01 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- *Trade name:*
* RENSA PRO CLEAN 4582-00

- Article number / Safety Data Sheet:
N4582

- **Details of the supplier of the safety data sheet**

- *Manufacturer/Supplier:*
Teknos AG
Industriestrasse 7
LI-9487 Gamprin-Bendern
T +423 375 94 00
F +423 375 94 99

- *Further information obtainable from:*
Product safety department. e-mail address: li-sdb@teknos.com

- *Emergency telephone number:*
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

02 Hazards identification

- *Classification of the substance or mixture*
Void

- *Label elements*

- GHS label elements

- Hazard pictograms

- Void

- Signal word

- Void

- Hazard statements

- Void

03 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- *Description:*
Mixture of substances listed below with nonhazardous additions.

- *Dangerous components:*

CAS Number

None.

%

- *Additional information:*

For the wording of the listed risk phrases refer to section 16.

04 First aid measures

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

- **After swallowing:**

Do not induce vomiting; call for medical help immediately.

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05 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

06 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
In case of seepage into the ground inform responsible authorities.
Dilute with plenty of water.
In case of gas release or seepage into the ground inform responsible authorities.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Prevent impact and friction.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Protect from frost.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)**
No further relevant information available.

08 Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Do not eat or drink while working.

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- Be sure to clean skin thoroughly after work and before breaks.
- *Respiratory protection: Suitable respiratory protective device recommended.*
 - *Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Impervious gloves*
 - *Material of gloves*
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - *Penetration time of glove material*
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
 - *Eye protection: Safety glasses*
 - *Body protection: Protective work clothing*

09 Physical and chemical properties

Appearance		
Appearance:		
Form:	Liquid	
Colour:	According to product specifica	
Odour:	Characteristic Characteristic	
Odour threshold:	Not determined.	
Change in condition		
Melting point/freezing point:	0 °C	
Initial boiling point and boiling range:	100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	at 20 °C	23,0000 mbar
Density:	1,0000 g/cm3	
Solubility in / Miscibility with		
water:	Not determined.	
Viscosity:		
.	Not determined.	
.	Not determined.	
Solvent content:		
Water:	90,00 %	
Other information	No further relevant information available.	

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:**
No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity**
 - **LD/LC50 values relevant for classification:**
- | | |
|---|---------------------------------------|
| 112-34-5 | 2-(2-butoxyethoxy)ethanol |
| Oral, LD50: 5660 mg/kg (rat) Dermal, LD50: 4000 mg/kg (Rabbit) Oral, LD50: 2098 mg/kg (rat) Dermal, LD50: 1640 mg/kg (Rabbit) Oral, LD50: 1260 mg/kg (rat) Dermal, LD50: 5000 mg/kg (Rabbit) Oral, LD50: 5660 mg/kg (rat) Dermal, LD50: 13000 mg/kg (Rabbit) Inhalative, LC50/4h: 6 mg/l (rat) Oral, LD50: 7060 mg/kg (rat) Inhalative, LC50/4h: 20000 mg/l (rat) Oral, LD50: 3300 mg/kg (rat) Dermal, LD50: 5000 mg/kg (Rabbit) Oral, LD50: 5045 mg/kg (rat) Dermal, LD50: 12800 mg/kg (Rabbit) Inhalative, LC50/4h: 30 mg/l (rat) Oral, LD50: 1746 mg/kg (rat) Oral, LD50: 1414 mg/kg (guinea Pig) Dermal, LD50: 2000 mg/kg (rat) Dermal, LD50: 1000 mg/kg (Rabbit) Dermal, LD50: 2000 mg/kg (guinea Pig) Oral, LD50: 4000 mg/kg (rat) Dermal, LD50: 13630 mg/kg (Rabbit) | |
| 78-96-6 | 1-aminopropan-2-ol |
| 122-99-6 | 2-Phenoxyethanol |
| 107-98-2 | 1-methoxy-2-propanol |
| 64-17-5 | ethanol |
| 78-93-3 | butanone |
| 67-63-0 | propan-2-ol |
| 111-76-2 | 2-butoxyethanol |
| 123-42-2 | 4-hydroxy-4-methylpentan-2-one |
- **Primary irritant effect:**
 - Skin corrosion/irritation
No irritant effect.
 - Serious eye damage/irritation
No irritating effect.
 - **Respiratory or skin sensitisation**
No sensitising effects known.
 - **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12 Ecological information

- Aquatic toxicity:
No further relevant information available.
- **Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential**
No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Generally not hazardous for water

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13 Disposal considerations

- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
- **Recommended cleansing agents:**
Water, if necessary together with cleansing agents.

14 Transport information

- **UN-Number**
- ADR Void
- IMDG Void
- IATA Void
- **UN proper shipping name**
- ADR Void
- IMDG Void
- IATA Void
- **Transport hazard class(es)**
- ADR
- Class Void
- IMDG
- Class Void
- IATA
- Class Void
- **Packing group**
- ADR Void
- IMDG Void
- IATA Void
- **Environmental hazards:**
Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
- **Transport/Additional information:**
Not applicable.

15 Regulatory information

- **Inventory of Hazardous Chemicals**
- 111-76-2 2-butoxyethanol
- 123-42-2 4-hydroxy-4-methylpentan-2-one
- 64-17-5 ethanol
- 67-63-0 propan-2-ol
- 78-93-3 butanone
- 97-64-3 ethyl lactate
- **National regulations:**
- **Information about limitation of use:**

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The above-mentioned manufacturer's information on the handling of isocyanates is contained in the safety data sheet of the product. The European Committee of Paint, Printing Ink and Artists 'Colours Manufacturers' Associations (CEPE) provides the following information on coatings isocyanates: Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes - especially on breathing organs - and cause hypersensitivity reactions. Inhalation of vapour or spray mist may cause sensitisation. When handling paints containing isocyanates, all precautions required for solvent-containing paints must be followed. Vapour and spray mist in particular should not be inhaled. Persons who are allergic, asthmatic, or prone to respiratory ailments should not work with isocyanate-containing paints.

- *Technical instructions (air):*
- Class Share in %
III
I
- *Waterhazard class:*
Generally not hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
Environment protection department.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
- * Data compared to the previous version altered.