

Safety data sheet

according to 1907/2006/EC, Article 31
Version No: 4

Revision: 07.08.2017

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

· **1.1 Product identifier**

· Trade name: **RENOLIT EXOFOL Professional Cleaner**

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

· **Application of the substance / the preparation:**

Washing and cleaning products (including solvent based products). Use as detergent with no dissolving effect on surfaces made of PVC or Acrylate coatings or wood reproductions. Application in the assembly area for plastic profiles and plastics in general.

· **Uses advised against:**

Other

Restricted to professionals only!

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

RENOLIT SE

Horchheimer Strasse 50

D-67547 Worms

Germany

Tel: +49 6241 303 0

Fax: +49 6241 303 18 1139

Email: exterior@renolit.com

· **Further information obtainable from:**

Tel: +49 6241 303 0

Fax: +49 6241 303 18 1139

Email: reg.affairs@renolit.com

Web: www.renolit.com

· **1.4 Emergency telephone number (24 h):** Tel: +49 30 19240 (bilingual german/english)

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

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- **Hazard-determining components of labelling:**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- **Additional information:**

Labelling for contents acc. to Regulation (EC) no. 648/2004:

Containing 30% and more of aliphatic hydrocarbons.

Antistatic agent.

- **2.3 Other hazards**

Suffocation after swallowing.

In use, may form flammable/explosive vapour-air mixture.

- **Results of PBT and vPvB assessment**

- **PBT:** Not determined.

- **vPvB:** Not determined.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Dangerous components:**

EC number: 921-024-6 Reg.nr.: 01-2119475514-35-XXXX	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	95 - < 100%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1 - < 5%
CAS: 71786-60-2 EINECS: 276-014-8 Reg.nr.: 01-2119957489-17-XXXX	Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs. Skin Corr. 1C, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Acute Tox. 4, H302	< 0.1%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures· **4.1 Description of first aid measures**· **General information:**

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** Supply fresh air.· **After skin contact:**

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting.

Call for a doctor immediately.

No administration in cases of unconsciousness or cramps. Immediately get medical attention.

Caution if victim vomits. Risk of aspiration! Often hardly avoidable spontaneous vomiting is especially dangerous because of possible penetration into the trachea. Therefore, if necessary, keep person's head deep in the prone position.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

· **Hazards** Possible consequential damage to peripheral nerves.· **4.3 Indication of any immediate medical attention and special treatment needed**

If necessary oxygen respiration treatment.

Treat symptomatically.

SECTION 5: Firefighting measures· **5.1 Extinguishing media**· **Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.CO₂, sand, extinguishing powder. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **5.2 Special hazards arising from the substance or mixture**

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

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

· **5.3 Advice for firefighters**· **Protective equipment:** Wear self-contained respiratory protective device.· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

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Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

- **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

- **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

Dispose of the material collected according to regulations.

- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about fire and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect from heat.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

- **Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from foodstuffs.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 67-63-0 propan-2-olWEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm

- **DNELs**

- **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

Oral DNEL(long/systemic) 699 mg/kg bw/day (Consumer)

Dermal DNEL(long/systemic) 699 mg/kg bw/day (Consumer)

773 mg/kg bw/day (Workers (Industrial/Professional))

Inhalative DNEL(long/systemic) 608 mg/m³ (Consumer)

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		2035 mg/m ³ (Workers (Industrial/Professional))
CAS: 67-63-0 propan-2-ol		
Oral	DNEL(long/systemic)	26 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	319 mg/kg bw/day (Consumer)
		888 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	89 mg/m ³ (Consumer)
		500 mg/m ³ (Workers (Industrial/Professional))
CAS: 71786-60-2 Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs.		
Oral	DNEL(long/systemic)	0.214 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	0.214 mg/kg bw/day (Consumer)
		0.3 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	0.745 mg/m ³ (Consumer)
		2.112 mg/m ³ (Workers (Industrial/Professional))

· **PNECs**

CAS: 67-63-0 propan-2-ol	
PNEC(aqua)	140.9 mg/L (freshwater) 140.9 mg/L (marine water)
PNEC(STP)	2251 mg/L (sewage treatment plant)
PNEC(sediment)	552 mg/kg sedi. dw (freshwater) 552 mg/kg sedi. dw (marine water)
PNEC(soil)	28 mg/kg soil dw (soil)
CAS: 71786-60-2 Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs.	
PNEC(aqua)	0.000183 mg/L (freshwater) 0.000018 mg/L (marine water) 0.001 mg/L (intermittent release)
PNEC(STP)	2.2 mg/L (sewage treatment plant)
PNEC(sediment)	1.692 mg/kg sedi. dw (freshwater) 0.169 mg/kg sedi. dw (marine water)
PNEC(soil)	5 mg/kg soil dw (soil)

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

DIN EN 141

· **Protection of hands:**

Protective gloves

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Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

DIN EN 374

- **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.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Petroleum-like
Odour threshold:	Not determined.

- pH-value: Not determined.

- **Change in condition**

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	76 °C

- Flash point: -1 °C

- Flammability (solid, gas): Not applicable.

- Ignition temperature: 245 °C

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Not determined.

- Explosive properties: Explosive

- **Explosion limits:**

Lower:	0.7 Vol %
Upper:	15 Vol %

- Oxidising properties: No

- Vapour pressure at 20 °C: 100 hPa

- Density at 20 °C: 0.805 g/cm³

- Relative density: Not determined.

- Vapour density: Not determined.

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· Evaporation rate	Not determined.	
· Solubility in / Miscibility with water:	Easily soluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
71786-60-2	Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs.	0,7 logPow @ 25 °C (OECD Guideline 123)
· Viscosity:		
Dynamic at 20 °C:	0.432 mPas	
Kinematic:	Not determined.	
· Solvent content:		
VOC (EC)	98.1 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Ignition hazard.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixtures with air.
- **10.4 Conditions to avoid** Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:**
Can be released in case of fire: Pyrolysis products, toxic.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral	LD50	> 5840 mg/kg (Rat) Read-across
Dermal	LD50	> 2800 - 3100 mg/kg (Rat) Read-across
Inhalative	LC50 (4h)	> 25.2 mg/L (Rat)

CAS: 67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg (Rat) (OECD Guideline 401)
Inhalative	LC50 (4h)	> 10000 ppmV (Rat) (OECD Guideline 403, inhalation:vapour)

CAS: 71786-60-2 Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs.

Oral	LD50	1300 mg/kg (Rat) (OECD Guideline 425)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

EC50 (static)	0.23 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna) 21d Read-across
NOEL (72h) (static)	3 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)

CAS: 67-63-0 propan-2-ol

LC50 (96h) (dynamic)	9640 mg/L (Fish) (OECD Guideline 203, Pimephales promelas)
EC50 (24h) (static)	> 10000 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal

CAS: 71786-60-2 Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs.

LC50 (96h)	0.28 mg/L (Fish) (OECD Guideline 203, Danio rerio) semi-static nominal
EC50 (48h) (static)	0.84 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
EC50 (3h) (static)	49 mg/L (Bacteria) (OECD Guideline 209, activated sludge) nominal
EC50 (72h) (static)	0.107 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) nominal
NOEC (21d)	0.32 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna) semi-static nominal

· 12.2 Persistence and degradability

	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	98 % (28d, OECD Guideline 301 F)
67-63-0	propan-2-ol	53 % (5d, EU Method C.5)
71786-60-2	Ethanol, 2,2'-iminobis-, N-C12-18-alkylderivs.	75 % (28d, Read-across, OECD Guideline 301 F)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** If product enters soil, it will be mobile and may contaminate groundwater.
- **Additional ecological information:**
- **General notes:**

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The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- **12.5 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:**

Waste disposal according to Directive (EC) no. 2008/98 – Waste Framework Directive - on waste in the latest version.

- **Waste disposal key:**

According to List of Waste, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste code of the product:

070104* - other organic solvents washing liquids and mother liquors

Waste code of the wiping material:

150202* - absorbents, filter materials, wiping cloths, protective clothing contaminated by hazardous substance

Waste code of packaging:

150110* - packaging containing residues of or contaminated by hazardous substances

- **Uncleaned packaging**

- **Recommendation:**

Handle contaminated packaging in the same way as the substance itself.

Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR/RID/ADN, IMDG, IATA**

UN3295

- **14.2 UN proper shipping name**

- **ADR/RID/ADN**

3295 HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS

- **IMDG**

HYDROCARBONS, LIQUID, N.O.S. ((1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate), MARINE POLLUTANT

- **IATA**

HYDROCARBONS, LIQUID, N.O.S.

- **14.3 Transport hazard class(es)**

- **ADR/RID/ADN, IMDG**



- **Class**

3 Flammable liquids.


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· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR/RID/ADN):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

- Relevant phrases
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

*** Data compared to the previous version altered.**