

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 28.11.2013

Version number 1

Revision: 28.11.2013

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

## \* Product identifier

- \* Trade name: **Rubisol**
- \* Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- \* Application of the substance / the preparation  
Cleaner for clocks
- \* Details of the supplier of the safety data sheet
- \* Manufacturer/Supplier: Imbach Chemie AG  
Pilatusstrasse 31  
CH 5630 Muri  
Tel. +41 (0) 56 664 06 16  
Fax +41 (0) 56 664 06 17
- \* Further information obtainable from: Laboratory  
info@imbachchemie.ch
- \* Emergency telephone number: Poison control center CH 8030 Zurich  
Tel. +41 (0) 44 251 51 51  
National emergency call: 145

### 2 Hazards identification

- \* Classification of the substance or mixture  
\* Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS08 health hazard

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



GHS09 environment

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



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
STOT SE 3      H336 May cause drowsiness or dizziness.

- \* Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10-67: Flammable. Vapours may cause drowsiness and dizziness.

- \* Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Has a narcotizing effect.

- \* Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- \* 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

- \* Hazard-determining components of labelling:

Naphtha (petroleum), hydrodesulfurized heavy  
Solvent naphtha (petroleum), light arom.

- \* Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.

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<p><b>* Precautionary statements</b></p> <p><b>* Other hazards</b></p> <p><b>* Results of PBT and vPvB assessment</b></p> <p><b>* PBT:</b></p> <p><b>* vPvB:</b></p>	<p>H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P332+P313 If skin irritation occurs: Get medical advice/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p>Not applicable. Not applicable.</p>
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### 3 Composition/information on ingredients

**\* Chemical characterization: Mixtures**

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

**\* Dangerous components:**

<p>CAS: 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy EINECS: 265-185-4</p>	<p>Xn R65; N R51/53 R10-66-67 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336</p>	<p>75-100%</p>
<p>CAS: 64742-95-6 Solvent naphtha (petroleum), light arom. EINECS: 265-199-0</p>	<p>Xn R65; Xi R37; N R51/53 R10-66-67 Carc. Cat. 2, Muta. Cat. 2 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336</p>	<p>2.5-10%</p>
<p>CAS: 107-98-2 1-methoxy-2-propanol EINECS: 203-539-1</p>	<p>R10 Flam. Liq. 3, H226</p>	<p>2.5-10%</p>
<p>CAS: 1336-21-6 ammonia EINECS: 215-647-6</p>	<p>C R34; N R50 Skin Corr. 1B, H314 Aquatic Acute 1, H400</p>	<p>1-2.5%</p>

**\* Additional information** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

**\* Description of first aid measures**

**\* General information**

Immediately remove any clothing soiled by the product.  
Take affected persons out into the fresh air.  
Do not leave affected persons unattended.

**\* After inhalation**

Supply fresh air; consult doctor in case of complaints.

**\* After skin contact**

Immediately rinse with water.

**\* After eye contact**

If skin irritation continues, consult a doctor.

Removing available contact lenses if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**\* After swallowing**

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Do not induce vomiting; call for medical help immediately.

**\* Information for doctor**

**\* Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**\* Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting measures

**\* Extinguishing media**

**\* Suitable extinguishing agents**

CO2, sand, extinguishing powder. Do not use water.

**\* For safety reasons unsuitable extinguishing agents**

Water with full jet.

**\* Special hazards arising from the substance or mixture**

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

**\* Advice for firefighters**

**\* Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

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\* **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

\* **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources  
Ensure adequate ventilation

\* **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

\* **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

\* **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.

## 7 Handling and storage

\* **Handling**

\* **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Handle with care. Avoid jolting, friction and impact.

\* **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Prevent impact and friction.  
Keep respiratory protective device available.

\* **Conditions for safe storage, including any incompatibilities**

\* **Storage**

\* **Requirements to be met by storerooms and receptacles:** Provide floor trough without outlet.  
Prevent any seepage into the ground.  
Use only receptacles specifically permitted for this substance/product.  
Store in a cool location.

\* **Information about storage in one common storage facility:** Store away from oxidizing agents.  
Please, consider the national regulation about storage of flammable liquids.

\* **Further information about storage conditions:** Protect from frost.  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Up to 12 months durable.

\* **Storage class** 3

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

## 8 Exposure controls/personal protection

\* **Additional information about design of technical facilities:** No further data; see item 7.

\* **Control parameters**

\* **Ingredients with limit values that require monitoring at the workplace:**  
107-98-2 1-methoxy-2-propanol  
WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm  
Sk

\* **Additional information:** The lists valid during the making were used as basis.

\* **Exposure controls**

\* **Personal protective equipment**

\* **General protective and hygienic measures** Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Immediately remove all soiled and contaminated clothing  
Store protective clothing separately.

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- Avoid contact with the eyes and skin.  
Pregnant women should strictly avoid inhalation or skin contact.  
Do not eat, drink, smoke or sniff while working.  
Eye rinsing bottle or first aid eye shower must be available at work.  
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.
- \* **Respiratory protection:**
- \* **Protection of hands:**  
To avoid skin problems reduce the wearing of gloves to the required minimum.  
Check the permeability prior to each renewed use of the glove.  
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  
Preventive skin protection by use of skin-protecting agents is recommended.  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- \* **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.
- \* **Not suitable are gloves made of the following materials:**  
Leather gloves  
Strong material gloves
- \* **Eye protection:**



Tightly sealed goggles.

## 9 Physical and chemical properties

### \* Information on basic physical and chemical properties

#### \* General Information

##### \* Appearance:

- Form:** Fluid  
**Colour:** Yellow tint  
**\* Odour:** Ammonia-like  
**\* Odour threshold:** Not determined.

\* **pH-value:** Not determined.

##### \* Change in condition

- Melting point/Melting range:** undetermined  
**Boiling point/Boiling range:** 150 °C

\* **Flash point:** 40 °C

\* **Flammability (solid, gaseous)** Not applicable.

\* **Ignition temperature:** 507 °C

\* **Decomposition temperature:** Not determined.

\* **Self-igniting:** Product is not selfigniting.

\* **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### \* Explosion limits:

- Lower:** 0.6 Vol %  
**Upper:** 7.0 Vol %

\* **Vapour pressure at 20 °C:** 2.1 hPa

\* **Density at 20 °C:** 0.802 g/cm<sup>3</sup>

\* **Relative density** Not determined.

\* **Vapour density** Not determined.

\* **Evaporation rate** Not determined.

##### \* Solubility in / Miscibility with

**Water:** Not miscible or difficult to mix

\* **Partition coefficient (n-octanol/water):** Not determined.

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* <b>Viscosity:</b>	
dynamic:	Not determined.
kinematic:	Not determined.
* <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

* <b>Reactivity</b>	
* <b>Chemical stability</b>	
* <b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
* <b>Possibility of hazardous reactions</b>	No dangerous reactions known
* <b>Conditions to avoid</b>	No further relevant information available.
* <b>Incompatible materials:</b>	No further relevant information available.
* <b>Hazardous decomposition products:</b>	No dangerous decomposition products known

### 11 Toxicological information

* <b>Information on toxicological effects</b>	
* <b>Acute toxicity:</b>	
* <b>LD/LC50 values relevant for classification:</b>	
<b>64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy</b>	
Oral LD50 >2000 mg/kg (rat)	
Dermal LD50 >2000 mg/kg (rat)	
Inhalative LC50 >5 mg/l (rat)	
<b>64742-95-6 Solvent naphtha (petroleum), light arom.</b>	
Oral LD50 >6800 mg/kg (rat)	
Dermal LD50 >3400 mg/kg (rab)	
Inhalative LC50 >10.2 mg/l (rat)	
* <b>Primary irritant effect:</b>	
<b>on the skin:</b>	Skin irritations are possible.
<b>on the eye:</b>	No irritating effect.
* <b>Sensitization:</b>	No sensitizing effects known.
* <b>Additional toxicological information:</b>	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

### 12 Ecological information

* <b>Toxicity</b>	
* <b>Aquatic toxicity:</b>	CAS: 64742-82-1Naphtha (petroleum), hydrodesulfurized heavy LC50 ≤ 10 mg/l (algas, micro-organismes, fish)
* <b>Persistence and degradability</b>	No further relevant information available.
* <b>Behaviour in environmental systems:</b>	
* <b>Bioaccumulative potential</b>	No further relevant information available.
* <b>Mobility in soil</b>	No further relevant information available.
* <b>Ecotoxicological effects:</b>	
* <b>Remark:</b>	Toxic for fish
* <b>Additional ecological information:</b>	
* <b>General notes:</b>	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
* <b>Results of PBT and vPvB assessment</b>	
* <b>PBT:</b>	Not applicable.
* <b>vPvB:</b>	Not applicable.
* <b>Other adverse effects</b>	No further relevant information available.

### 13 Disposal considerations

* <b>Waste treatment methods</b>	
* <b>Recommendation</b>	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal according to official regulations.
* <b>European waste catalogue</b>	For this product no waste key number can become laid on flat in accordance with the European waste catalogue. Only the intended purpose by the consumer allows an allocation.

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\* Uncleaned packaging:

\* Recommendation:

Disposal must be made according to official regulations.

**14 Transport information**

* UN-Number	UN1993
* ADR, IMDG, IATA	
* UN proper shipping name	
* ADR	1993 FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.), ENVIRONMENTALLY HAZARDOUS
* IMDG	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
* IATA	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.)
* Transport hazard class(es)	
* ADR, IMDG, IATA	
* Class	3 Flammable liquids.
* Label	3
* Packing group	
* ADR, IMDG, IATA	III
* Environmental hazards:	Product contains environmentally hazardous substances: ammonia, Naphtha (petroleum), hydrodesulfurized heavy
* Marine pollutant:	Yes Symbol (fish and tree)
* Special marking (ADR):	Symbol (fish and tree)
* Special precautions for user	Warning: Flammable liquids.
* Danger code (Kemler):	30
* EMS Number:	F-E, S-E
* Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
* Transport/Additional information:	
* ADR	
* Limited quantities (LQ)	5L
* Transport category	3
* Tunnel restriction code	D/E
* UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.), 3, III, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information**

* Safety, health and environmental regulations/legislation specific for the substance or mixture	
* National regulations	
* Information about limitation of use:	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.
* Breakdown regulations:	Critical quantity values according to the regulations on accidents should be adhered to.
* Technical instructions (air):	<b>Class Share in %</b> NK 14.3
* Waterhazard class:	Water hazard class 2 (Self-assessment): hazardous for water.
* Other regulations, limitations and prohibitive regulations	Consider the national regulations for storage hazardous substances.
* Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

**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	H226 Flammable liquid and vapour.
	H304 May be fatal if swallowed and enters airways.
	H314 Causes severe skin burns and eye damage.

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H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.  
R34 Causes burns.  
R37 Irritating to respiratory system.  
R50 Very toxic to aquatic organisms.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

\* **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)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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