

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

Printing date 25.01.2011

Version number 6

Revision: 25.01.2011

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
 * 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. 056-664 06 16
 Fax 056-664 06 17

* Further information obtainable from: Abteilung Labor
 info@imbachchemie.ch

* Emergency telephone number: Schweizerisches Toxikologisches Informationszentrum CH 8030 Zürich
 Tel. +41 (0) 44 251 51 51

* 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

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 EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

* Code letter and hazard designation of product:

Xn Harmful
 N Dangerous for the environment

* Hazard-determining components of labelling:

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

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* Risk phrases:	10 Flammable. 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 65 Harmful: may cause lung damage if swallowed. 67 Vapours may cause drowsiness and dizziness.
* Safety phrases:	23 Do not breathe fumes/aerosol. 36 Wear suitable protective clothing. 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 57 Use appropriate container to avoid environmental contamination. 60 This material and its container must be disposed of as hazardous waste.
* Other hazards	
* Results of PBT and vPvB assessment	
* PBT:	Not applicable.
* vPvB:	Not applicable.

* 3 Composition/information on ingredients

*** Chemical characterization: Mixtures**
*** Description:** Mixture of substances listed below with nonhazardous additions.

*** Dangerous components:**

CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy	50-100%
EINECS: 265-185-4	Xn R65; N R51/53 R10-66-67 GHS02 Flam. Liq. 3, H226; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 STOT SE 3, H336	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	2.5-10%
EINECS: 265-199-0	Xn R65; Xi R37; N R51/53 R10 GHS08 Carc. 1B, H350; Asp. Tox. 1, H304	
CAS: 107-98-2	1-methoxy-2-propanol	2.5-10%
EINECS: 203-539-1	R10 GHS02 Flam. Liq. 3, H226	
CAS: 1336-21-6	ammonia	<2.5%
EINECS: 215-647-6	C R34; N R50 GHS05 Skin Corr. 1B, H314; GHS09 Aquatic Acute 1, H400	

*** 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.
* After inhalation	Supply fresh air; consult doctor in case of complaints.
* After skin contact	Generally the product does not irritate the skin.
* After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
* After swallowing	If symptoms persist consult doctor.
* 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:	Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

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6 Accidental release measures

- * **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
- * **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.
Open and handle receptacle with care.
Prevent formation of aerosols.
- * **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- * **Conditions for safe storage, including any incompatibilities**
- * **Storage**
- * **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
- * **Information about storage in one common storage facility:** Observe the together storage ban (see storage class)
- * **Further information about storage conditions:** Protect from frost.
Keep receptacle tightly sealed.
Store under lock and key and with access restricted to technical experts or their assistants only.
Up to 24 month durable.
- * **Storage class** 3 (inflammably liquid substances)
- * **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
OES Long-term value: 10* 4** mg/m³
*total inhalable dust **respirable dust
WEL Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 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.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.
Eye rinsing bottle or first aid eye shower must be available at work.
- * **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.

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*** Protection of hands:**

Protective gloves.

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

*** 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.

* 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

*** Ignition temperature:**

450 °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:

7.5 Vol %

*** Vapour pressure at 20 °C:**

5 hPa

*** Density at 20 °C:**0.802 g/cm³*** Relative density**

Not determined.

*** Vapour density**

Not determined.

*** Evaporation rate**

Not determined.

*** Solubility in / Miscibility with****Water:**

Not miscible or difficult to mix

*** Segregation coefficient (n-octanol/water):**

Not determined.

*** Viscosity:****dynamic:**

Not determined.

kinematic:

Not determined.

*** Solvent content:**

14.3 % (organisch)

*** Other information**

No further relevant information available.

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10 Stability and reactivity

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

*** 11 Toxicological information**

- * **Information on toxicological effects**
- * **Acute toxicity:**
- * **LD/LC50 values relevant for classification:**
 - 64742-95-6 Solvent naphtha (petroleum), light arom.
 - Oral LD50 >6800 mg/kg (rat)
 - Dermal LD50 >3400 mg/kg (rab)
 - Inhalative LC50 >10.2 mg/l (rat)
 - 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy
 - Oral LD50 >2000 mg/kg (rat)
- * **Primary irritant effect:**
- * **on the skin:** No irritant effect.
- * **on the eye:** No irritating effect.
- * **Sensitization:** No sensitizing effects known.
- * **Additional toxicological information:** 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.
Harmful

12 Ecological information

- * **Toxicity**
- * **Acquatic toxicity:** CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.
EC50 > 10 mg/l (Daphnia magna)
LC50 1-10 mg/l (algae, bacteriums, fish)
- * **Persistence and degradability** No further relevant information available.
- * **Behaviour in environmental systems:**
- * **Bioaccumulative potential** No further relevant information available.
- * **Mobility in soil** No further relevant information available.
- * **Ecotoxicological effects:**
- * **Remark:** Harmful to fish
- * **Additional ecological information:**
- * **General notes:** 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.
Harmful to aquatic organisms
- * **Results of PBT and vPvB assessment**
- * **PBT:** Not applicable.
- * **vPvB:** Not applicable.
- * **Other adverse effects** No further relevant information available.

13 Disposal considerations

- * **Waste treatment methods**
- * **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal according to official regulations.
- * **European waste catalogue** 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.
- * **Uncleaned packaging:**
- * **Recommendation:** Disposal must be made according to official regulations.

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*** 14 Transport information**

* Land transport ADR/RID (cross-border)	
* ADR/RID class:	3 Flammable liquids.
* Danger code (Kemler):	30
* UN-Number:	1993
* Packaging group:	III
* Hazard label	3
* Special marking:	Symbol (fish and tree)
* UN proper shipping name:	1993 FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.)
* Tunnel restriction code	D/E
* Maritime transport IMDG:	
* IMDG Class:	3
* UN Number:	1993
* Label	3
* Packaging group:	III
* EMS Number:	F-E,S-E
* Marine pollutant:	Yes
	Symbol (fish and tree)
* Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.)
* Air transport ICAO-TI and IATA-DGR:	
* ICAO/IATA Class:	3
* UN/ID Number:	1993
* Label	3
* Packaging group:	III
* Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.)
* UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S., 3, III
* Environmental hazards:	Product contains environmentally hazardous substances: ammonia, Naphtha (petroleum), hydrodesulfurized heavy
	Warning: Flammable liquids.
* Special precautions for user	
* Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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):	Class Share in % NK 10-25
* Waterhazard class:	Water hazard class 2 (Self-assessment): hazardous for water.
* 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.
	H336 May cause drowsiness or dizziness.
	H350 May cause cancer.
	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.

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- 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)
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
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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

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