

**1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier:**

Tradenname : REGULIN R  
Substance name : Surfactants in solvent

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

Relevant identified uses : Cleaning solution for precision mechanics  
Uses advised against : At present, we still do not Information on the use restrictions before. In the presence of the data they are in the Safety Data added.

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

Company : Bullnheimer & Co. GmbH & Co. KG  
Im Tal 12  
DE 86179 Augsburg  
Fon : +49 (0)821 80850 0  
Fax : +49 (0)821 80850 90  
E-Eail : [info@bullnheimer.de](mailto:info@bullnheimer.de)  
Responsible Person : Safety  
Technical Information : Weekdays: Mo.–Th. 8:00-16:15, Fr. 08.00 – 13:00  
: +49 (0)821 80850 0

**1.4 EMERGENCY TELEPHONE NUMBER**

Fon : Weekdays: Mo.–Th. 8:00-16:15, Fr. 08.00 – 13:00  
+49 (0)821 80850 0  
or the emergency number for Poison Control

**2. Hazards identification**

**2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS08

| Regulation (EC) No 1272/2008 [CLP/GHS] |                   |               |       |
|----------------------------------------|-------------------|---------------|-------|
| Hazard Class                           | Hazard Categories | Target organs | Notes |
| Aspiration hazard                      | Category 1        |               | H304  |

Full text of H-phrases: see section 16.

**Significant adverse effects**

**human health** : See Section 11 for toxicological information.  
 No further information available.

**physical and chemical hazards** : See Section 9 for physico-chemical information.  
 No further information available.

**Possible effects on the environment** : See Section 12 for Ecological Information.  
 No further information available.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

**Hazard pictograms** :



GHS08

**Signal word** : **Danger**

**Hazard statements**

H304 May be fatal if swallowed and enters airways.

| Precautionary statements |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| P280                     | Wear protective gloves/protective clothing/eye protection/face protection. |
| P260                     | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| P301 + P310              | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.        |
| P331                     | Do NOT induce vomiting.                                                    |

### 2.3. Other hazards

No other information available.

## 3. Composition/information on ingredients

### 3.1. Substances

This product is a mixture

### 3.2. Description of the mixture

| Hazardous ingredients                                                  | [weight] % | Classification according Regulation (EC) No 1272/2008 [CLP] |                      |
|------------------------------------------------------------------------|------------|-------------------------------------------------------------|----------------------|
|                                                                        |            | Hazard class / hazard category                              | hazards              |
| Naphtha (petroleum), hydrotreated heavy                                |            | Asp. Tox. 1                                                 | H304                 |
| INDEX-Nr. : 649-327-00-6<br>CAS-Nr. : 64742-48-9<br>EG-Nr. : 265-150-3 | <= 90      |                                                             |                      |
| Propan-2-ol                                                            |            | Flam. Liq. 2<br>Eye Irrit. 2<br>STOT SE 3                   | H225<br>H319<br>H336 |
| INDEX-Nr. : 603-117-00-0<br>CAS-Nr. : 67-63-0<br>EG-Nr. : 200-661-7    | <= 3       |                                                             |                      |

## 4. First aid measures

### 4.1. Description of first aid measures

- General informations : Move out of dangerous area. Remove contaminated clothing immediately.
- Following inhalation : Remove to fresh air. If symptoms persist, call a doctor. In case of applying recovery position and seek medical advice.
- Following skin contact : Immediately with soap and plenty of water. If symptoms persist, call a doctor.

- Following eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Following ingestion : Do not induce vomiting. Seek medical attention immediately. One vomits when lying on his back to bring the person into the recovery position.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : No further information available.
- Effects : No further information available.

### 5. Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing agents : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighters : Vapors may be heavier than air and invisible, and along the ground. Vapors may form explosive mixtures with air. Backfire at a long distance is possible. In the event of fire the following hazardous decomposition products: Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for fire-fighters

- Special protective equipment for firefighters : In the event of fire, self-contained breathing apparatus. Wear proper protective equipment (full body suit).
- For more information : Closed containers exposed to fire with water spray. Heating will cause rise in pressure - danger of bursting. Collect contaminated firefighting water separately, do not empty into drains.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Personal protective equipment. Keep spectators away. Provide adequate ventilation. Keep away from heat and ignition sources. Gas / fumes / vapor / spray not breathe. Avoid contact with eyes and skin.

**6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer. Avoid intrusion into the ground. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3. Methods and material for containment and cleaning up**

Methods and materials for containment and cleaning : Spillage with non-combustible absorbent material (eg sand, earth, vermiculite) and record and place in container for disposal according to local / national regulations (see section 13).

For more information : Treat recovered material as prescribed in: Disposal.

**6.4. Reference to other sections**

Personal protective equipment see section 8

**7. Precautions for safe handling****7.1. Protective measures**

Information for safe handling : Keep container tightly closed. Provide adequate ventilation. Personal protective equipment. Avoid contact with skin and eyes. Vapors and spray mists. Emergency eye wash stations should be available in the immediate vicinity.

hygiene measures : Keep away from foodstuffs, beverages and feed. When using do not eat, drink or smoke. Wash hands before breaks and after work. Remove contaminated clothing immediately. Avoid contact with skin and eyes. Gas / fumes / vapor / spray not breathe.

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

Requirements for storage rooms and containers : Keep in an area equipped with solvent resistant flooring.

Precautions against fire and explosion protection : Keep away from sources of ignition - No smoking. Vapors may be heavier than air and invisible, and along the ground. Vapors may form explosive mixtures with air. Measures against electrostatic charge. Use only in a place with explosion-proof equipment.

For more information on storage Conditions : Keep tightly closed in a cool and dry. Keep out of direct sunlight. Protect from heat. Store in a well ventilated place.

Common storage : Keep away from foodstuffs, beverages and feed.

Storage class (LGK) : 10 - 13 (TRGS 510 - Storage of hazardous substances in transportable containers)

### 7.3. Specific end uses

specific use : No information available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Components with critical values that require monitoring at the limits:

| Propan-2-ol |              | CAS-Nr.               | 67-63-0   |
|-------------|--------------|-----------------------|-----------|
|             |              | EG-Nr.:               | 200-661-7 |
| TRGS 900    | 200 ppm      | 500 mg/m <sup>3</sup> |           |
| AGW(DE)     | 2(II);DFG, Y |                       |           |

### 8.2 Exposure controls

#### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8

#### Personal protective equipment

##### Respiratory protection

Reference : Gas filter unit according to EN 14387 type A (organic gas / vapor, boiling point > 65 ° C) - characteristic brown

##### Hand protection

Reference : Suitable protective gloves. 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 degradation. Gloves should be replaced at first signs of wear.

Material : Nitrile rubber / Nitrillatex - NBR

Gloves : >= 1 h

Glove thickness : 0,5 mm

##### Eye protection

Reference : Tightly sealed goggles

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**Skin and body protection**

Reference : solvent-resistant protective clothing

**Controls and monitoring of environmental exposure**

General information : Do not flush into surface water or sanitary sewer. Avoid intrusion into the ground. If the product contaminates rivers and lakes or drains inform respective authorities.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties****appearance**

Physical state : liquid  
 Colour : colorless  
 Odour : typical art

**Safety data**

pH : no data available  
 Melting point/range : -89,5 °C  
 boiling point/range : 82 - 217 °C  
 Flash point : 63,16 °C  
 Explosion hazard : The product is not explosive, but formation of explosive vapor / air mixtures is possible.  
 Lower Explosive Limit : 0,6 %(V)  
 Upper Explosive Limit : 12 %(V)  
 Ignition temperature : 200 C°  
 Oxidizing properties : no data available  
 Vapor pressure : 30 - 93 Pa / 20°C"  
 Density : 0,8 g/cm3  
 Water solubility : unlöslich  
 Partition coefficient : no data available  
 n-Octanol/Water  
 Viscosity : 1,26 mPa.s  
 Solvent content : ca. 90-95%

**9.2 Other safety information**

No further information available.

**10. Stability and reactivity****10.1 Reactivity**

Reference : No further information available.

**10.2 Chemical stability**

Reference : No decomposition if stored and applied. No further information available.

**10.3 Possibility of hazardous reactions**

Dangerous reactions : No further information available.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks, electrostatic charge.

Thermal decomposition : No further information available.  
Remark : Currently we have no information on this from our suppliers.

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizers

**10.6 Hazardous decomposition products**

Hazardous decomposition products : In case of fire the following can be released: carbon oxides, nitrogen oxides, acid vapors.

**11. Toxicological information****11.1 Information on toxicological effects**

There were no toxicological findings to the mixture.

**Acute toxicity**

| <b>Naphtha (petroleum), hydrotreated heavy</b> |               |                |                   |
|------------------------------------------------|---------------|----------------|-------------------|
|                                                |               | <b>CAS-Nr.</b> | <b>64742-48-9</b> |
|                                                |               | <b>EG-Nr.:</b> | <b>265-150-3</b>  |
|                                                | <b>Orally</b> | <b>Inhale</b>  | <b>Skin</b>       |
| Method                                         | LD50          |                | LD50              |
| Concentration                                  | 5.000 mg/kg   |                | 3.160 mg/kg       |
| Species                                        | Rat           |                | Rabbit            |
| Exposure time                                  |               |                |                   |
| <b>Propan-2-ol</b>                             |               |                |                   |
|                                                |               | <b>CAS-Nr.</b> | <b>67-63-0</b>    |
|                                                |               | <b>EG-Nr.:</b> | <b>200-661-7</b>  |
|                                                | <b>Orally</b> | <b>Inhale</b>  | <b>Skin</b>       |
| Method                                         | LD50          |                | LD50              |
| Concentration                                  | 5.000 mg/kg   |                | 5.000 mg/kg       |
| Species                                        | Rat           |                | Rabbit            |
| Exposure time                                  |               |                |                   |

Irritation : Corrosivity :



as

*Material Safety Data Sheet according to regulation (EC) N° 1907/2006 (REACH)*

REGULIN R AN : 5503.5 - .25

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Causes skin irritation  
and severe eye  
irritation.  
(Conventional  
method)

Based on the  
available data, the  
classification criteria  
are not met.  
(Conventional  
method)

|                        |   |                                                                                                                                                                                                                                                                         |
|------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensitization          | : | Based on the available data, the classification criteria are not met. (Conventional method)                                                                                                                                                                             |
| Repeated dose toxicity | : | not tested                                                                                                                                                                                                                                                              |
| Carcinogenicity        | : | not tested                                                                                                                                                                                                                                                              |
| Mutagenicity           | : | not tested                                                                                                                                                                                                                                                              |
| Reproductive toxicity  | : | not tested                                                                                                                                                                                                                                                              |
| For more information   | : | The toxicological classification of the mixture based on the results of the calculation method (conventional method) of the Dangerous Preparations Directive 1999/45/EC. According to the manufacturer's experience can not be expected for the labeling other hazards. |

## 12. Ecological information

### 12.1 Toxicity

|                       |   |                                         |
|-----------------------|---|-----------------------------------------|
| Toxicity to fish      | : | LC50 fish (96h)<br>> 100,00 mg/L        |
| Aquatic invertebrates | : | EC50 crustaceans (48h)<br>> 100,00 mg/L |
| Aquatic plants        | : | IC50 seaweed (72h)<br>> 100,00 mg/L     |

### 12.2 Persistence and degradability

readily biodegradable

### 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in Organisms are not expected.

### 12.4 Mobility in soil

No further relevant information.

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

no data available

**13. Disposal considerations****13.1 Waste treatment methods**

Dispose of in compliance with the AbfKrWG and local regulations for physical chemical pretreatment.

Recommendation : Exact waste code with the disposer.

Waste code according to the Waste Catalogue Ordinance (AVV) : The waste code number, according to the European Waste Catalogue (EWC) is dependent on waste producers and can therefore be different for a product. The waste key number must be determined, therefore, separately from each waste producer.

Contaminated packaging : 1501 99 D1 halogenated compounds

Additional information : is a recovery in the sense of AbfKrWG not possible, dispose of in compliance with local regulations.

**14. Transport information**

**Not classified as dangerous in the meaning of transport regulations**

**15. Regulatory information****15.1 Regulations on safety, health and environmental regulations / legislation specific for the substance or mixture****EU regulations**

**Regulation (EC) No 1005/2009 (substances that deplete the ozone layer):**  
inapplicable

**Regulation (EC) No 850/2004 (Persistent Organic Pollutants):**  
inapplicable

**Regulation (EC) No 689/2008 (export and import of dangerous chemicals):**  
inapplicable

**Regulation (EC) No 648/2004 (detergents):**  
The product meets the criteria laid down in Regulation (EC) No 648/2004.

**Restrictions under Title VIII of Regulation (EC) 1907/2006:**  
no

**National regulations (Germany)**

**Water hazard class**  
Class 1 according VwVwS, Annex 4

**Reference to Technical Rules for Hazardous Substances (TRGS)**

Protection measures in accordance with TRGS 500 compliance  
 Storage class according to TRGS 510: 3 (Flammable liquids)

**15.2 Chemical Safety Assessment**

Currently we have no information on this from our suppliers.

**16. Other information**

**Literature and data sources**

**Regulations**

Preparations Directive (1999/45/EC), as last amended by Regulation (EC) No 1907/2006.  
 Substances Directive (67/548/EEC) as last amended by Directive 2009/2/EC.  
 REACH Regulation (EC) No 1907/2006 as last amended by Regulation (EU) No 253/2011.  
 Regulation (EC) No 1272/2008, as last amended by Regulation (EC) No 790/2009.

**Internet**

<http://www.baua.de>  
<http://www.arbeitssicherheit.de>  
<http://www.dguv.de/ifa/de/gestis/stoffdb>  
<http://logkow.cisti.nrc.ca>

**Full text of risk phrases in section 2 and 3**

|      |                                               |
|------|-----------------------------------------------|
| H225 | Highly flammable liquid and vapour.           |
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eye irritation.                |
| H336 | May cause drowsiness or dizziness.            |

**Further information**

The information contained herein is based on the state of our knowledge at the time of revision and serve to our products to describe in terms of safety arrangements. they are guarantee for any specific product features and no product or product specification and shall not contractual relationship. The safety data are not transferable to other products. As far as a guidance for safe named product with other materials mixed, blended or processed, or processed, or worked on, the information in this safety data sheet and is not to explicitly gives something else, are not transferred to the new material.