

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

- **Product identifier**
- **Trade name:** **Ruko Bohr- und Schneidspray - 400ml**
- **Article number:** 101 036
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC24 Lubricants, greases, release products
- **Application of the substance / the preparation:** Lubricating oil
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** RUKO GmbH  
Präzisionswerkzeuge  
Robert-Bosch-Straße 7-9  
71088 Holzgerlingen  
Telefon: 49(0)7031/6800-0  
Telefax: 49(0)7031/6800-24  
E-Mail: info@ruko.de  
Internet: www.ruko.de
- **Further information obtainable from:** Herr Striz  
Telefon: 07031/6800742  
Email: Lukas.Striz@ruko.de
- **Emergency telephone number:** Beratungsstelle bei Vergiftungen, Mainz  
Tel. 0049 (0) 6131 / 19240

## 2 Hazards identification

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



GHS02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.

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



F+; Extremely flammable

R12: Extremely flammable.

- **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.

Warning! Pressurized container.

- **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:**

F+ Extremely flammable

- **Risk phrases:**

12 Extremely flammable.

- **Safety phrases:**

2 Keep out of the reach of children.  
3 Keep in a cool place.

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- 16 Keep away from sources of ignition - No smoking.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 46 If swallowed, seek medical advice immediately and show this container or label.

**Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Buildup of explosive mixtures possible without sufficient ventilation.

**Classification in accordance with Directive 75/324/EEC:**

Extremely flammable

**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: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane	 F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	25-50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane	 F+ R12  Flam. Gas 1, H220;  Press. Gas, H280	2,5-10%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	5 - 15%
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**Additional information:** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

**Description of first aid measures**

- 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:** Seek immediate medical advice.
- 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** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- **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.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
See Section 7 for information on safe handling.
- **Reference to other sections** See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **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:** 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.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **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
- **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 trough 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

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Colour: Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: -44°C
- **Flash point:** -97°C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 460°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: 1,7 Vol %
  - Upper: 10,9 Vol %
- **Vapour pressure at 20°C:** 8300 hPa
- **Density at 20°C:** 0,692 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not applicable.

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- |                                              |                                            |
|----------------------------------------------|--------------------------------------------|
| · Solubility in / Miscibility with water:    | Not miscible or difficult to mix.          |
| · Segregation coefficient (n-octanol/water): | Not determined.                            |
| · Viscosity:<br>Dynamic:                     | Not determined.                            |
| Kinematic:                                   | Not determined.                            |
| · Solvent content:<br>Organic solvents:      | 10,0 %                                     |
| · Other information                          | No further relevant information available. |

## 10 Stability and reactivity

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

## 11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:  
  on the skin:
  - on the eye:
  - Sensitization:
- No irritant effect.
- No irritating effect.
- No sensitizing effects known.

## 12 Ecological information

- Toxicity
  - Aquatic toxicity:
  - Persistence and degradability
  - Behaviour in environmental systems:  
  Bioaccumulative potential
  - Mobility in soil
  - Additional ecological information:  
  General notes:
  - Results of PBT and vPvB assessment  
  PBT:
  - vPvB:
  - Other adverse effects
- No further relevant information available.
- No further relevant information available.
- No further relevant information available.
- No further relevant information available.
- Generally not hazardous for water
- Not applicable.
- Not applicable.
- 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.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- Land transport ADR/RID (cross-border)



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label:** 2.1
- **UN proper shipping name:** 1950 AEROSOLS
- **Tunnel restriction code** D

- Maritime transport IMDG:



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1
- **Special precautions for user** Warning: Gases.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## 15 Regulatory information

- **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.

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- **Relevant phrases** H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.
- **Abbreviations and acronyms:** R12 Extremely flammable.  
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
- **\* Data compared to the previous version altered.**

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