

## Safety data sheet

Trade name: Gleitmetall-W, Schmiermittel

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

#### 1.1. Product identifier:

Trade name: **Gleitmetall Wolfram**

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against:

Use of the substance

/Mixture: lubricant

#### 1.3. Details of the supplier of the safety data sheet:

**RW Technik GmbH & Co KG**

**Teisenberggasse 43, 5020 Salzburg**

**Tel. +43 662 8277 91 Fax. +43 662 8277 94 e-mail: [info@rw-technik.at](mailto:info@rw-technik.at)**

**Information: Mr. Christian Hafenscherer**

**Emergency telephone number: Poison Control Centre Vienna: 01 406-43-43**

### 2. Hazard identification

#### 2.1. Classification of the substance or mixture:

**Classification (EC) 1272/2008**

Flam. Aerosol 1; H222

Skin Irrit. 2; H315

Aquatic Chronic 3; H412

**Classification (67/548/EEC, 1999/45/EC)**

F+; R12

R52/53

R67

#### 2.2. Label elements:

**Label elements (CLP)**



GHS02



GHS07

Signal word: **Danger**

Hazard statements:

H222 Extremely flammable aerosol.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

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

P403 Store in a well-ventilated place.

Contains: Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic Propan-2-ol

Text for labelling:

Whatever its contents: '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. .

**Label elements (67/548/EEC or 1999/45/EC)**

F+

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Extremely flammable

R-phrases:

R12 Extremely flammable.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67

S-phrases:

S23 Do not breathe vapour/spray.

S38 In case of insufficient ventilation, wear suitable respiratory equipment.

S51 Use only in well-ventilated areas.

S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Hazardous components which must be listed on the label:

/

Text for labelling:

Whatever its contents: '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. Keep away from sources of

ignition - No smoking. Keep out of the reach of children.

### 2.3. Other hazards:

No data available.

### 3. Composition/information on ingredients

Substance:

Mixture:

Bezeichnung:	Gehalt (% m/m):	CAS: EC: Index:	Einstufung (67/548/EWG):	Einstufung (1272/2008/EG):
Kohlenwasserstoffe, C7, n-Alkane, iso-Alkane, zyklisch	10 – 25	/ 927-510-4 /	F; R11, Xn; R65, Xi; R38, R67, N; R51/53	Flam. Liq. 2; H225, Asp. Tox. 1; H304, Skin Irrit. 2; H315, STOT SE 3; H336, Aquatic Chronic 2; H411
Propan	10 – 25	74-98-6 200-827-9 601-003-00-5	F+; R12	Flam. Gas. 1; H220, Press. Gass; H280
Isobutan	25 - 50	75-28-5 200-857-2 601-004-00-0	F+; R12	Flam. Gas. 1; H220, Press. Gass; H280

### 4. First aid measures

#### 4.1. Description of first measures:

General advice: Remove contaminated clothing immediately.

If inhaled Remove victim to fresh air, loosen tight clothing and keep quiet. In case of respiratory symptoms consult with the doctor immediately.

In case of skin contact Change contaminated clothing. After contact with skin, wash immediately with plenty of soap and water. Do not use solvents or thinners. If skin becomes irritated consult with the doctor. In case of eye contact Flush eyes for several minutes with water holding eyelids open. In case of troubles or persistent symptoms consult with the doctor.

If swallowed inapplicable

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

No data available

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### 4.3. Indication of any immediate medical attention and special treatment needed:

No data available.

## 5. Firefighting measures

### 5.1. Extinguishing media:

Suitable extinguishing media:

Foam, water spray or fog. Dry chemical powder, carbon dioxide.

Unsuitable extinguishing media Water jet.

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

Specific hazards during fire fighting:

Extremely flammable. Vapors may form an explosive mixture with air. In case of fire: Dense black smoke, which may cause a health hazard. Furthermore: Carbon monoxide and carbon dioxide.

### 5.3. Advice for firefighters:

In the event of fire, self-contained breathing apparatus. Personal protective equipment.

Weitere Information: Cool endangered containers with water spray to cool. Pressurized container. Heating will cause pressure rise: bursting and explosion.

## 6. Accidental release measures

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

Ensure adequate ventilation. Do not breathe vapor / spray. Wear suitable protective clothing. Avoid contact with substance.

### 6.2. Environmental precautions:

Prevent penetration into soil, drains, ponds, low-lying areas and pits.

### 6.3. Methods and material for containment and cleaning up:

Isolate leaked material using non-flammable absorption agent (eg sand, earth, vermiculite, diatomaceous earth) and collect it

for disposal according to local regulations in the appropriate containers (see Chapter 13). Do not use the solvent for cleaning.

### 6.4. Reference to other sections:

See section: 7, 8, 11, 12 and 13.

## 7. Handling and storage

Isobutane 25 – 50 75-28-5200-857-2 601-004-00-0

F+; R12 Flam. Gas. 1; H220,

Press. Gass; H280

### 7.1. Precautions for safe handling:

Advice on safe handling:

Use only in well-ventilated areas. Do not breathe vapor / spray. Avoid prolonged contact with the skin. Do not spray in eyes.

Advice on protection against fire and explosion

Vapours may form explosive mixtures with air that are heavier than air. Protect from sunlight and temperatures above 50 ° C. Keep ignition sources away - Do not smoke. Take precautionary measures against static discharges. Pierce or burn, even after use, do not force. Do not spray on a naked flame or any incandescent material.

### 7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage arease and containers:

Keep container in a well-ventilated place. Keep only in original container. Store at room temperature.

Store containers upright.

Storage class: 2B, Aerosols

### 7.3. Specific en use(s):

No data available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters:

### 8.2. Exposure controls:

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Stoffidentität		Arbeitsplatzgrenzwert		Spitzenbegr.	
Bezeichnung	CAS-Nr.	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	Überschreitungsfaktor	Basis
Kohlenwasserstoffe, C7, n-Alkane, iso-Alkane, zyklisch	/	/	1000	2 (II)	AGS
Propan	74-98-6	1.000	1.800	4 (II)	DFG
Isobutan	75-28-5	1.000	2.400	4 (II)	DFG

**Technical protective equipment:**

Provide sufficient air exchange and / or exhaust in work rooms.

**Personal protective equipment:**

Respiratory protection:

When exceeding the occupational exposure limits (OEL) is to wear a respirator. Use filter type AX (= against vapors of volatile organic compounds) according to EN 371.

The following applies to propane: When concentration exceeded insulating equipment must be used!

Hand protection: Protective gloves according to EN 374 Glove material: nitrile rubber or fluorine rubber. The manufacturer of the protective gloves on permeability and breakthrough time are observed.

Eye protection: Tightly sealed safety glasses according to EN 166.

Protective clothing: Wear suitable protective clothing.

Hygien measures: Avoid contact with eyes, skin and clothing. When using do not eat, drink or smoke. Wash hands before breaks and at end of work.

**Environmental exposure controls:**

General advice: Do not flush into surface water or sanitary sewer system. Further leakage or spillage if this is possible without hazard. If the product contaminates rivers and lakes or drains inform respective authorities.

**9. Physical and chemical properties****9.1. Information on basis physical and chemical properties:**

Value Unit At Methode Notice

Appearance: aerosol

Colour: silber

Odour: characteristic

Flash point: ca. -80 °C isobutane

Lower explosion limit: 1,40 Vol. % isobutane

Upper explosion limit: 10,80 Vol. % propane

Density: 1,05 g/cm<sup>3</sup>

Water solubility: insoluble

VOC 482 g/l

VOC 72,01 %

Organic solvent 11,19 %

**9.2. Other information:**

Keine Daten verfügbar.

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

No data available.

**10.2. Chemical stability:**

The product is chemical stable.

**10.3. Possibility of hazardous reactions:**

No decomposition if stored and applied. Vapors may form explosive mixtures with air.

Because of the high vapor pressure when heated bursting of the vessels.

**10.4. Conditions to avoid:**

Extremely flammable. Keep away from heat, sparks and open flames. Vapours may form explosive mixtures with air that are heavier than air. Protect from sunlight and temperatures above 50 ° C.

**10.5. Incompatible materials:**

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Strong oxidizing agents.

### 10.6. Hazardous decomposition products:

Hazardous decomposition products::

In case of fire may be liberated: Smoke, carbon monoxide and carbon dioxide.

## 11. Toxicological information

### Acute toxicity:

Acute oral toxicity:

Hydrocarbons, C7, n-alkanes,

iso-alkanes, cyclic

LD<sub>50</sub> > 8 ml/kg (rat)

Acute inhalation toxicity:

Hydrocarbons, C7, n-alkanes,

iso-alkanes, cyclic

LC<sub>50</sub> > 23,3 mg/l (rat, 4 h)

Acute dermal toxicity:

Hydrocarbons, C7, n-alkanes,

iso-alkanes, cyclic

LD<sub>50</sub> > 4 ml/kg (rat)

**Skin corrosion/irritation:** May cause irritation.

**Serious eye damage/eye irritation:**

May cause irritation.

**Respiratory or skin sensitization:**

No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** No data available

**Reproductive and developmental toxicity:**

No data available

**Other information:** Symptoms of overexposure may be headache, dizziness, fatigue, nausea and vomiting.

Vapours may cause drowsiness and dizziness.

## 12. Ecological information

### 12.1. Toxicity:

Toxicity to fish:

Hydrocarbons, C7, nalkanes,

iso-alkanes, cyclic

LL/EL/IL50 >1 - <= 10 mg/l

Toxicity to Daphnia:

Hydrocarbons, C7, nalkanes,

iso-alkanes, cyclic

LL/EL/IL50 >1 - <= 10 mg/l

Toxicity to algae:

Hydrocarbons, C7, nalkanes,

iso-alkanes, cyclic

LL/EL/IL50 >10 - <= 100 mg/l

Toxicity to bacteria:

Hydrocarbons, C7, nalkanes,

iso-alkanes, cyclic

LL/EL/IL50 >10 - <= 100 mg/l

**12.2. Persistenc and degradability:**

No data available.

**12.3. Bioaccumulative potencial:**

No data available.

**12.4. Mobility in soil:**

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No data available.

### 12.5. Results of PBT- and vPvB assesment:

No data available.

### 12.6. Other adverse effects:

The penetration of the product into drains, water courses or the soil should be prevented.

## 13. Disposal considerations

### 13.1. Product:

Waste key number: 160504\* = Accumulators containing certain dangerous gases in pressurized containers.

\* = The disposal must be provided.

Recommendation: Do not open, even after use or burn.

Disposal according to official regulations.

### 13.2. Packaging:

Waste key number: 150110 = Packaging containing residues of hazardous substances or contaminated by dangerous substances

Recommendation: Drain thoroughly and completely as possible.

Disposal according to official regulations.

## 14. Transport information

### ADR/RID

UN number: 1950

Product designation: AEROSOLS

Class: 2

Packaging group: --

Code: 5F

Label: 2.1

Limited quantities: 1 L

Tunnel restriction code: (D)

Environmentally hazardous: no

### RID

UN number 1950

Product designation: AEROSOLS

Class: 2

Packaging group: --

Code: 5F

Label: 2.1

Hazard identification No. 23

Limited quantities: LQ2

Tunnel restriction code: (D)

Environmentally hazardous: no

### Besondere Vorsichtsmaßnahmen für den Verwender:

Vgl. Abschnitt: 6, 7 und 8

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Council Directive

(96/82/EC):

Quantity 1 Quantity 2

Extremely flammable 10 t 50 t

### 15.2. Chemical safety assessment:

No data available.

## 16. Other information