

EG-Safety Data Sheet 1907/2006EG (Reach)

Printdate: 26.09.2011

revised: : 26.09.2011

Trading Name: Kühflüssigkeit HKF 15.1 (Cooling Fluid)

Company: Conzelmann Schweißhandelsgesellschaft mbH

1 Substance/preparation and company name

- Trading name

- **specified use** cooling- and antifreeze fluid for welding machines
- **Company** Conzelmann Schweißhandelsgesellschaft mbH
von Roggensteinstr. 5 89358 Kammeltal-Wettenhausen
Tel. 0049(0)(8223) 96602 - 0 Fax 0049(0)(8223) 96602 - 20
- **Contact techn. Inf.** do.
- **Emergency** poison emergency number Berlin 030/19240

2 Hazard indentifications

Description of risks:

The product does not meet the classification criteria Irritant and Harmful under Directive 1999/45/EG
Because of its content of hazardous substances are, however, certain effects is possible.

Special indications of danger for humans and the environment:

R10 Flammable.

Product itself does not burn at room temperature. Can temperature increase at explosive vapor-air mixtures. When temperature rise is also disintegrate the vessels. In case of fire, possible formation of toxic gases (carbon Monoxide).

3 Composition/information on ingredients

Chemical composition

Description:

1,2-Ethandiol, 1-propanol, deionized water, inhibitor, <1%

Dangerous ingredients

EG-Nr.	CAS-Nr.	Bezeichnung	Anteil Gew. %	Symbol	R-Sätze
203-473-3	107-21-1	1,2-Ethandiol	< 25	Xn	22
200-746-9	71-23-8	1-propanol	< 15	F/Xi	11, 41, 67

4 First aid measures

- General advice:** Remove contaminated clothing
- Inhalation:** Remove to fresh air injured when complaints doctor.
- Skin Contact:** Wash with soap and water, crème skin.
- After eye contact:** with plenty of water for several minutes with open eyelid rinse under running water, with persistent symptoms consult doctor.
- Ingestion:** Rinse mouth and spit out drink plenty of water. Immediate medical attention.

5 Fire fighting measures

Adapted extinguishing agent:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

unsuitable extinguishing agent:

Water jet

Special hazards caused by the substance, the preparation itself, combustion products or resulting gases:

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Product itself does not burn at room temperature. Can temperature increase at explosive vapor-air mixtures. When temperature rise is also disintegrate the vessels. In case of fire, possible formation of toxic gases (carbon Monoxide)

Special protective equipment:

Independent of ambient air breathing apparatus.

Additional Information:

Collect contaminated fire fighting water separately.

6 Accidental release measures

People related precautions:

Do not inhale steams. Avoid skin and eye contact. Keep away ignition sources.

Environmental Protection Measures:

Collect contaminated fire water separately. Do not allow to enter drainage system, surface or ground water.

Procedure for cleaning / absorption:

Absorb leaked material with liquid-binding material (sand, diatomite, acid binders, universal binder, sawdust). Provide sufficient ventilation.

7 Handling and storage

Handling

Information on safe handling:

Provide for good ventilation, exhaust on the job. Do not inhale steams. Avoid skin and eye contact. Observe the AGW of values/(s) and/or other limit values.

Information on fire and explosion protection:

Steams can form a combustible mixture with air. In the emptied bundles, explosive mixtures can form. Keep away ignition sources.

- Do not smoke -

Storage

Requirements on storage rooms and containers:

Consider legal regulations related to water. Consider regulations for the storage of combustible liquids.

Information on joint storage:

Consider regulations for the storage of combustible liquids.

Further information on storage conditions:

Keep containers tightly closed. Protect against heat and direct sun exposure. Keep containers at a well-ventilated place.

Storage class:

Classification acc. to plant safety regulation (BetrSichV): inflammable

VbF-Class:

Not applicable.

Additional information about design of technical systems:

Measures against electrostatic charges take

8 Exposure controls and personal protection

AGW 203-473-3	107-21-1	1,2-Ethandiol	26 mg/m ³ 10 ml/m ³
AGW 200-746-9	71-23-8	1-propanol	f. TRGS 900 not defined

Additional remarks:

Basis were the lists valid at the time of preparation.

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Personal protective equipment

General protective and hygienic measures:

Wash hand with water and soap after work or before breaks.

Do not inhale gases, steams, aerosols.

Respiratory protection:

Normally, in case of continuously reliable observation of the AGE value, other limitation values and with sufficient ventilation no special measures have to be taken.

Do not inhale aerosols – wear breathing protection, if necessary.

Hand protection:

Safety gloves. The glove material has to be impermeable and resistant against the material prepared. As corresponding test results are not available, no recommendation can be given regarding the glove material for the preparation of the product. Selection of the glove material in consideration of the fabric cells, penetration rates and degradation.

Glove material:

The choice of suitable gloves is not only depending on the material but also on further quality features and varies from manufacturer to manufacturer. As the product is a preparation out of several substances, the resistance of glove material cannot be anticipated and has there for be tested prior to use.

Penetration time of the glove material:

The exact penetration time has to be inquired at the manufacturer of the gloves and has to be observed.

Eye protection:

Tightly closing protective glasses.

9 Physical and chemical properties

Shape: fluid **Colour:** colourless **Smell:** alcohol like

Change of state Valvue(s) Tested acc. To

Melting point: <-15° C (breaking effect only below about -18.5 ° C)

Boiling point/boiling range: Approx 95 - 97°C

Flashpoint: Approx 42°C DIN51755

Ignitation temperature: 400°C

Self-in flammability: Product is not self-inflammable

Risk of explosion: Product is not explosive, however the formation combustibile steam, air mixtures is possible

Explosion limit

lower:

upper:

Vapeur pressure (20°C): 20 hPa (mbar)

Density (20°C): 0,9847 g/cm³ calculated

Solubility in / miscibility with

Solubility (20°C): Completely mixable

pH-value (20°C): 9,0 -10,0

Electrical conductance (25°C): 20-30 µS/cm

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No use in properly. Avoid high temperatures

Dangerous reaction:

Strong oxidizers, alkali metals with hydrogen, acids

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Dangerous decomposition products:

No use in properly. In case of fire, carbon monoxide

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11 Toxicological data

Acute toxicity: not available, oral LD 50 values (rat) relative to the concentrates of the raw materials 1.2
Ethanediol 5890-13400 mg / kg, 1-propanol 8000 mg / kg

Primary irritation:

Of the skin: Continuous and/or repeated skin contact can lead to skin irritations

Of the eyes: Short, reversible irritation.

Sensitization: No sensitizing effect known.

Additional toxicological indications:

Inhaling of concentrated steams can lead to narcose-similar conditions and to headache, swindles, etc.

12 Ecological information

General information: Readily biodegradable

Water hazard class (WGK): 1 Self-assessment
Vulnerability to water

13 Disposal considerations

Product:

Waste key number.: exact key with the Waste Disposal deny

Disposal reference: Disposal according to official regulations.

Waste key number: 15 01 02 plastics

Uncleaned packing:

Well with water

Recommendation:

Recommended cleaning agent:

Water

14 Transport information

Not dangerous goods according to ADR/RID, IMDG-Code:, IATA

(Flash point > 35 ° C, the product has no selfcombustion, see ADR 2.2.3.1.1 Bem.1

15 Regulatory information

Labelling acc. to EEC guidelines:

Marking according to EC-guidelines/Regulation for Hazardous Goods.

R- clauses:

R10 inflammable

S- clauses:

S2 Keep out of the reach of children

S16 Ignition sources keep away - do not smoke -

National Regulations:

Classification acc. to VbF: inflammable

Water hazard class: weakly water-endangering

16 Further information

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The above information is correct at the present state of our knowledge and do not constitute property assurances in the legal sense dar. Legislation are on their own responsibility to consider. The Company is not responsible for any Damage resulting from handling or contact with the above product are be held responsible.