

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.10.2012

Revision: 13.05.2011

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

- Product identifier

- Trade name: **Köratac HF 300**

- Article number: R069417-00

- Relevant identified uses of the substance or mixture and uses advised against

- Application of the substance / the preparation Adhesives

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Kömmerling Chemische Fabrik GmbH
Zweibrücker Straße 200
D-66954 Pirmasens
Tel.: +49 (0)6331/56-2000
www.koe-chemie.de

- Informing department:

Abteilung: C-U Qualitäts- und Umweltmanagementcenter
(department: C-U Quality- and Environmentalmanagementcenter)
Tel.: +49 (0)6331/56-1119; Fax.: +49 (0)6331/56-1091
e-Mail: Productsafety@Koe-Chemie.de

- Emergency telephone number:

Bei Vergiftungen: (in case of poisoning:)
GBK-EMTEL International
Tel.(24h): +49(0)6132/84463 (all languages)

Bei Transportunfällen: (in case of transport accidents:)
Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 / GBK)

2 Hazards identification

- Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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

Xi; Irritant

R36/37: Irritating to eyes and respiratory system.

F; Highly flammable

R11: Highly flammable.

- Label elements

- Labelling according to Directive 67/548/EEC or Directive 1999/45/EC:

- Code letter and hazard designation of product:



Xi Irritant
F Highly flammable

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- Risk phrases:

- 11 Highly flammable.
- 36/37 Irritating to eyes and respiratory system.

- Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe vapour/spray.
- 29 Do not empty into drains.
- 33 Take precautionary measures against static discharges.
- 51 Use only in well-ventilated areas.

- Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.
 Contains 3,4-Epoxy cyclohexylmethyl-3,4-epoxy cyclohexylcarboxylat. May produce an allergic reaction.

- Other hazards

In the event of a large-scale use of the product, ignition sources in the immediate proximity and in low-lying areas, such as welding equipment, bells, heating elements, refrigerators, storage heaters etc. should be switched off! Erect warning signs warning of the hazardous risk of explosive atmosphere!

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of several substances

- Dangerous components:

CAS: 109-99-9 EINECS: 203-726-8	tetrahydrofuran Xi R36/37; F R11 R19 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H335	50-100%
CAS: 2386-87-0 EINECS: 219-207-4	3,4-Epoxy cyclohexylmethyl-3,4-epoxy cyclohexylcarboxylat Xi R43 Skin Sens. 1, H317	< 0.5%

- **SVHC** Doesn't contain SVHC-substances
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation**
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness bring patient into a stable side position for transport.
- **After skin contact**
Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.

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- **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**
Water spray
Alcohol-resistant foam
Fire-extinguishing powder
Carbon dioxide
- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **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** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Fumes can combine with air to form an explosive mixture.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
Store in dry conditions.

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 - **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

 - **Additional information about design of technical systems:** No further data; see item 7.

 - **Control parameters**

 - **Components with limit values that require monitoring at the workplace:**

109-99-9 tetrahydrofuran

WEL (Great Britain)	Short-term value: 300 mg/m ³ , 100 ppm Long-term value: 150 mg/m ³ , 50 ppm Sk
IOELV (European Union)	Short-term value: 300 mg/m ³ , 100 ppm Long-term value: 150 mg/m ³ , 50 ppm Skin

 - **Exposure controls**

 - **Personal protective equipment**

 - **General protective and hygienic measures**

The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of the work.

Immediately remove all soiled and contaminated clothing

 - **Breathing equipment:**

Not required with good ventilation and/or adequate extractor facilities

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter AX (DIN EN 371 [DIN EN 141])

 - **Protection of hands:**

Protective gloves made of the following material:

Fluorocarbon rubber (Viton)- (0,7mm)

The named material refers only to the chemical resistance to the product.

Another important factor in the selection of the right gloves is their resistance to mechanical wear and tear. This, however, can differ completely from company to company which is why we recommend that users contact glove manufacturers in order to establish compliance with their own individual operating needs. Attention is also to be paid to an adequate penetration time (> 240min / EN374) of the glove material which complies with the strength and duration of exposure to the product.

 - **Eye protection:** Safety glasses

9 Physical and chemical properties

 - **Information on basic physical and chemical properties**

 - **General Information**

 - **Appearance:**

Form:	Fluid
Colour:	Opaque
Odour:	Solvent-like

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- Change in condition Boiling point/Boiling range: 66°C	
- Flash point:	-21°C
- Ignition temperature:	215°C
- Explosion limits: Lower:	1.5 Vol %
Upper:	12.0 Vol %
- Vapour pressure at 20°C:	175 hPa
- Specific gravity at 20°C:	0.99 g/cm ³
- Solubility in / Miscibility with Water:	Partly soluble
- Viscosity: dynamic at 20°C:	8000 mPas (Sp.6/100 Upm)
- Solvent content: Organic solvents:	77.1 %
VOC (EU):	759.3 g/l
VOC (EU):	77.09 %
VOC (CH):	77.09 %
- Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
In case of fire, the following substance(s) may occur:
Hydrogen chloride (HCl)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Prolonged or repeated contact with the skin may cause skin irritation
 - **on the eye:** irritant

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

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- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **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** Disposal in accordance with official regulations
- **EWC-Code(s):**

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances listed under item 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:

080409* waste adhesives and sealants containing organic solvents or other dangerous substances
080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning:

08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 12 adhesive and sealant sludges other than those mentioned in 080411

Soiled waste packaging:

15 01 10* packaging containing residues of or contaminated by dangerous substances.

Clean waste packaging:

15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 04 metallic packaging

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

14 Transport information

- | | |
|----------------------------------|----------------|
| - UN-Number | UN1133 |
| - ADR, IMDG, IATA | |
| - UN proper shipping name | 1133 ADHESIVES |
| - ADR | ADHESIVES |
| - IMDG, IATA | |

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- Transport hazard class(es)

- ADR, IMDG, IATA



- Class	3 Flammable liquids.
- Label	3

- Packing group

- ADR III

- IMDG, IATA II

- Environmental hazards:

- Marine pollutant: No

- Special precautions for user Warning: Flammable liquids.

- Danger code (Kemler): 33

- EMS Number: F-E,S-D

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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- Transport/Additional information:

- ADR

- Limited quantities (LQ) 5L

- Transport category 3

- Tunnel restriction code D/E

- IMDG

- Remarks:	(Packing group III, if content of packaging ≤ 30l, according 2.3.2.3 IMDG)
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- IATA

- Remarks:	(Packing group III, if content of packaging ≤ 30l, according 3.3.3.1.1 IATA)
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- UN "Model Regulation":	UN1133, ADHESIVES, 3, III
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* 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.

 For industrial use only.

- **Legend of H- and R-phrases, concerning the in chapter 3 mentioned substances (marking of product please see chapter 2)**

H225 Highly flammable liquid and vapour.

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- H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
R11 Highly flammable.
R19 May form explosive peroxides.
R36/37 Irritating to eyes and respiratory system.
R43 May cause sensitisation by skin contact.

- Department issuing MSDS:**- Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
VOC: Volatile Organic Compounds (USA, EU)

- * Data compared to the previous version altered.

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