

Material Safety Data Sheet

According to 91/155 EC

Printing date 18.04.2002

Reviewed on 21.02.2002

1 Identification of substance:

- **Product details:**
- **Trade name:** Köracoll FE
- **Article number:** R069417-02
- **Manufacturer/Supplier:**
 Kömmerling Chemische Fabrik GmbH
 Zweibrücker Straße 200
 Postfach 2162
 D-66929 Pirmasens Tel.: 06331/56-0
- **Informing department:** Abteilung C-U (Chemie - Umwelt) - Tel.: 06331/56-2553
- **Emergency information:** Tel.: 06331/56-2423

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Adhesive.

- Dangerous components:

109-99-9	tetrahydrofuran	☒ Xi,	☒ F;	R 11-19-36/37	50-100%
----------	-----------------	-------	------	---------------	---------

3 Hazards identification

- **Hazard designation:**
 Xi Irritant
 F Highly flammable
- **Information pertaining to particular dangers for man and environment**
 R 11 Highly flammable.
 R 36/37 Irritating to eyes and respiratory system.
 Contains epoxy constituents. See information supplied by the manufacturer.

4 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.

5 Fire fighting measures

- **Suitable extinguishing agents**
 Water spray
 Alcohol-resistant foam
 Fire-extinguishing powder

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155 EC

Printing date 18.04.2002

Reviewed on 21.02.2002

Trade name: **Köracoll FE**

(Contd. of page 1)

- Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
 - **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
 - **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep away from ignition sources
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling**
- **Information 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.
- **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.

8 Exposure controls and personal protection

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

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

109-99-9 tetrahydrofuran

OES	Short-term value: 599 mg/m ³ , 200 ppm
	Long-term value: 300 mg/m ³ , 100 ppm
Sk	

- **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:**
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Solvent resistant gloves

(Contd. on page 3)

GB

Material Safety Data Sheet

According to 91/155 EC

Printing date 18.04.2002

Reviewed on 21.02.2002

Trade name: **Köracoll FE**

- Eye protection: Safety glasses

(Contd. of page 2)

9 Physical and chemical properties:

- Form:	Fluid
- Colour:	Opaque
- Odour:	Solvent-like
- 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:	0.985 g/cm ³
- Solubility in / Miscibility with Water:	Partly soluble
- Viscosity: dynamic at 20°C:	25000 mPas (Brookfield)
- Solvent content:	
Organic solvents:	76.9 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous products of decomposition:**
In case of fire, the following substance(s) may occur:
Hydrogen chloride (HCl)

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the eye:** Irritating effect.

12 Ecological information:

- **General notes:**
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal in accordance with official regulations
- **EWC-Code(s):**
080411, 080409, 080410;

(Contd. on page 4)

GB

Material Safety Data Sheet

According to 91/155 EC

Printing date 18.04.2002

Reviewed on 21.02.2002

Trade name: **Köracoll FE**

(Contd. of page 3)

(depending on waste origination process)

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

14 Transport information

- Land transport ADR/RID (cross-border)**- ADR/RID class:** 3 Flammable liquids.**- Danger code (Kemler):** 33**- UN-Number:** 1133**- Packaging group:** III**- Designation of goods:** 1133 KLEBSTOFFE (mit einem Flammpunkt unter 23°C und viskos gemäß 2.2.3.1.4) (Dampfdruck bei 50°C höchstens 110 kPa)**- Maritime transport IMDG:****- IMDG Class:** 3**- UN Number:** 1133**- Packaging group:** II (III)**- EMS Number:** 3-05**- Marine pollutant:** -**- Proper shipping name:** ADHESIVES**- Air transport ICAO-TI and IATA-DGR:****- ICAO/IATA Class:** 3**- UN/ID Number:** 1133**- Packaging group:** II (III)**- Proper shipping name:** ADHESIVES

15 Regulations ADR/RID (cross-border)

- Markings according to EC guidelines:**- Code letter and hazard designation of product:**

Xi Irritant
F Highly flammable

- 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 fumes/aerosol.

29 Do not empty into drains.

33 Take precautionary measures against static discharges.

51 Use only in well-ventilated areas.

- Special designation of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

GB

(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EC

Printing date 18.04.2002

Reviewed on 21.02.2002

Trade name: Köracoll FE

(Contd. of page 4)

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.

- **Department issuing MSDS:** Abteilung C-U (Chemie - Umwelt)

GB