

Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 23.02.2010

Revision: 23.02.2010

1 Identification of substance

- **Product details**
- **Trade name** FD-Reiniger
- **Number of Safety Data Sheet / Revision:** 2/12
- **Application of the substance / the preparation** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**
Tremco illbruck Produktion GmbH
Zweigniederlassung Traunreut
Traunring 65
D - 83301 Traunreut
Fax: ++49/8669/9784 Tel: ++49/8669/3410-0
- **Informing department:** E-Mail: info-tr@tremco-illbruck.com
- **Emergency information:**
Poisons Information Centre Munich
Tel: ++49/89/19240

2 Hazards identification

- **Hazard designation:**



Xi Irritant
F Highly flammable

- **Information pertaining to particular dangers for man and environment:**

R 11 Highly flammable.
R 36 Irritating to eyes.
R 67 Vapours may cause drowsiness and dizziness.

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **GHS label elements**

**Danger**

H225 - Highly flammable liquid and vapour.

**Warning**

H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

- **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

- **Response:**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- **Storage:**

P405 Store locked up.

- **Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

GB

(Contd. on page 2)

Safety Data Sheet

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Printing date 23.02.2010

Revision: 23.02.2010

Trade name FD-Reiniger

(Contd. of page 1)

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Solvent mixture.

- **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2	acetone Xi, F; R 11-36-66-67 Danger: 2.6/2 Warning: 3.3/2, 3.8/3	50-100%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure Xn, Xi; R 10-20/21-38 Warning: 2.6/3; 3.1.D/4, 3.1.I/4, 3.2/2	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn, F; R 11-20 Danger: 2.6/2 Warning: 3.1.I/4	< 2.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information**
Take affected persons out of danger area and instruct to lie down.
In case of indisposition consult a physician and present this leaflet.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:** Seek immediate medical advice.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray jet. Fight larger fires with water spray jet.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** No special measures required.
- **Additional information** Cool endangered containers with water spray jet.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.

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.

(Contd. on page 3)

GB

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Trade name **FD-Reiniger**

(Contd. of page 2)

- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe regulations for the storage of water hazard substances according to the water hazard class (see chapter 12). These are specific for each country.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
- **Storage class 3 A** (according to VCI-concept)-flammable liquids

8 Exposure controls and personal protection

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

• Components with critical values that require monitoring at the workplace:

67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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1330-20-7 xylene, mixed isomers, pure

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food.
Do not eat, drink or smoke while working.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves**
Butyl rubber, BR
Natural rubber, NR
Nitrile rubber, NBR
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.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:**
Chloroprene rubber, CR
PVC gloves
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

• General Information

Form:	Fluid
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(Contd. on page 4)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 23.02.2010

Revision: 23.02.2010

Trade name FD-Reiniger

(Contd. of page 3)

Colour:	Colourless
Smell:	Like ketone
<ul style="list-style-type: none"> · Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: 56°C 	
· Flash point:	-18°C
· Ignition temperature:	465°C
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	The product is not explosive. However, formation of explosive steam/air mixtures is possible.
<ul style="list-style-type: none"> · Critical values for explosion: Lower: 2.6 Vol % Upper: 13.0 Vol % 	
· Steam pressure at 20°C:	247 hPa
· Density at 20°C	0.8 g/cm ³
· Solubility in / Miscibility with Water:	Fully miscible
<ul style="list-style-type: none"> · Solvent content: Organic solvents: 100 % 	

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None if stored according to specifications.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

1330-20-7 xylene, mixed isomers, pure

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritating effect
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.

(Contd. on page 5)

GB

Safety Data Sheet

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Revision: 23.02.2010

Trade name FD-Reiniger

(Contd. of page 4)

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

Vapours have anaesthetic effect.

12 Ecological information:

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 04 99	wastes not otherwise specified
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· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID and GGV/SGVE (cross-border/domestic)**



· **ADR/RID-GGV/SGVE Class:** 3 (F1) Flammable liquids.

· **Kemler Number:** 33

· **UN-Number:** 1993

· **Packaging group:** II

· **Label** 3

· **Designation of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE)

· **Limited quantities (LQ)** LQ4

· **Transport category** 2

· **Tunnel restriction code** D1E

· **Maritime transport IMDG/SGVSea:**



· **IMDG/SGVSea Class:** 3

· **UN Number:** 1993

· **Label** 3

· **Packaging group:** II

· **EMS Number:** F-E,S-E

· **Marine pollutant:** No

(Contd. on page 6)

GB

Safety Data Sheet

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(Contd. of page 5)

- Correct technical name: FLAMMABLE LIQUID, N.O.S. (ACETONE)

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1993
- Label: 3
- Packaging group: II
- Correct technical name: FLAMMABLE LIQUID, N.O.S. (ACETONE)

- UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

15 Regulatory information

- Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- Code letter and hazard designation of product:**

Xi Irritant

F Highly flammable

- Risk phrases:**

11 Highly flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

- Safety phrases:**

2 Keep out of the reach of children.

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

- National regulations**

If nothing other is noted, the following remarks refer to regulations of the Federal Republic of Germany.

- Technical instructions (air):**

Class	Share in %
NK	100.0

- Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- Other regulations, limitations and prohibitive regulations**

According to § 14 GefStoffV the employer must set up a working regulation to inform his employees about the existing hazards while working with this product.

16 Other information:

The safety data sheet shows the essential physical, toxicological, ecological and safety data of this product as well as it gives recommendations for a safe handling e.g. at storage, usage and transport. The appropriate information shall be used to protect people and environment. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The consignee of our products must observe existing laws and regulations in his own responsibility even if these are not mentioned in this safety data sheet.

(Contd. on page 7)

GB

Safety Data Sheet
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TREMCO

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(Contd. of page 6)

· Relevant R-phrases

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Contact:

Department QEA
Tel: ++49/8669/3410-49

· Abbreviations and acronyms:

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
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.

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