

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.11.2007

Revision: 15.11.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** AFD 2018
- **Elring article number:** 461.680
- **Application of the substance / the preparation** Sealing compound
- **Manufacturer/Supplier:**
ElringKlinger AG
Max-Eyth-Straße 2
D-72581 Dettingen/Erms
- **Informing department:**
2SEW Tel.: ++49/(0)7123/724-253
E-mail: sdb@elringklinger.de
- **Emergency information:** Tel.: ++49/(0)7123/724-0 (8.00 - 16.00 CET)

2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 36/37/38 Irritating to eyes, respiratory system and skin.
R 43 May cause sensitisation by skin contact.
- **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.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Anaerobic sealing compound based on acrylate.

- **Dangerous components:**

	Methacrylatester Xi; R 36/37/38	>10%
CAS: 27813-02-1 EINECS: 248-666-3	methacrylic acid, monoester with propane-1,2-diol Xi; R 36-43	1-<20%
CAS: 868-77-9 EINECS: 212-782-2	2-hydroxyethyl methacrylate Xi; R 36/38-43	1-<20%
CAS: 79-10-7 EINECS: 201-177-9	acrylic acid C, Xn, N; R 10-20/21/22-35-50	1-<5%
CAS: 80-15-9 EINECS: 201-254-7	α, α -dimethylbenzyl hydroperoxide T, C, O, N; R 7-21/22-23-34-48/20/22-51/53	<2%

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

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.

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5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
The breathing of hazardous decomposition products may cause serious damage to health.
- **Protective equipment:**
Wear self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.

6 Accidental release measures

- **Person-related safety precautions:** Avoid contact with the eyes and skin.
- **Measures for environmental protection:** Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Use only in well ventilated areas.
Avoid contact with skin or eyes.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** see chapter 10
- **Further information about storage conditions:**
+5°C - +28°C
Protect from heat and direct sunlight.

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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Do not eat, drink or smoke while working.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
PE/PP
Recommended thickness of the material: ≥ 0.7 mm
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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.

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· **Eye protection:** Tightly sealed safety glasses.**9 Physical and chemical properties:**· **General Information**

Form: Fluid
Colour: Red
Odour: Characteristic

· **Change in condition**

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· **Flash point:** > 100°C· **Self-inflammability:** >380°C· **Danger of explosion:** Product is not explosive.· **Vapour pressure:** <3 hPa· **Density at 20°C** 1.0-1.1 g/cm³· **Solubility in / Miscibility with Water:** Insoluble· **pH-value at 20°C:** 3-5· **Viscosity:**
dynamic at 25°C: 50-250HT Pas (Brookfield)**10 Stability and reactivity**· **Thermal decomposition / conditions to be avoided:**

Stable at ambient temperature
Avoid temperatures above 60°C.

· **Materials to be avoided:**

oxidizing agents (strong)
reducing agents

· **Dangerous products of decomposition:** Carbon monoxide and carbon dioxide**11 Toxicological information**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

79-10-7 acrylic acid

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)

80-15-9 α,α -dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritant effect.· **Sensitization:** Sensitization possible by skin contact.· **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

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· **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

· **General notes:**

No environmental influences are known or expected, if used as authorized accordingly.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

13 Disposal considerations

· **Product:**

· **Recommendation**

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

Take to special waste combustion plant.

Cured product can be deposited together with domestic waste. Observe the specific related regulations of local authorities.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID-GGVS/E Class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **Transport/Additional information:** Not dangerous according to the above specifications.

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

· **Hazard-determining components of labelling:**

methacrylic acid, monoester with propane-1,2-diol
2-hydroxyethyl methacrylate

· **Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

· **Safety phrases:**

24/25 Avoid contact with skin and eyes.

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- 26 *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
 28 *After contact with skin, wash immediately with plenty of soap and water.*
 36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*

· **National regulations**· **Information about limitation of use:** *Employment restrictions concerning young persons must be observed.*· **Technical instructions (air):**

Class	Share in %
I	< 2,5
NK	2,5-10

· **Water hazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.***16 Other information:**

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.

· **Relevant R-phrases**

- 10 *Flammable.*
 20/21/22 *Harmful by inhalation, in contact with skin and if swallowed.*
 21/22 *Harmful in contact with skin and if swallowed.*
 23 *Toxic by inhalation.*
 34 *Causes burns.*
 35 *Causes severe burns.*
 36 *Irritating to eyes.*
 36/37/38 *Irritating to eyes, respiratory system and skin.*
 36/38 *Irritating to eyes and skin.*
 43 *May cause sensitisation by skin contact.*
 48/20/22 *Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.*
 50 *Very toxic to aquatic organisms.*
 51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
 7 *May cause fire.*

· **Department issuing data specification sheet:** *2SEW*· **Contact:** *Mr. Anhorn*