

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.01.2014

Version: 1

Revision: 19.01.2014

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

1.1 Product identifier

Trade name AFD 2018

Article number: 461.680

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

No further relevant information available.

Application of the substance / the preparation:

Adhesives

Sealant

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

Information concerning particular hazards for human 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.

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.

2.2 Label elements

Labelling according to EU 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:

2,2'-ethylenedioxydiethyl dimethacrylate
methacrylic acid, monoester with propane-1,2-diol

Risk phrases:

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

R 43 May cause sensitisation by skin contact.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.01.2014

Version: 1

Revision: 19.01.2014

Trade name AFD 2018

(Contd. of page 1)

Safety phrases:

- S 24/25 Avoid contact with skin and eyes.
 S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S 28 After contact with skin, wash immediately with plenty of water.
 S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other hazards

The product evidently does not contain any organically bonded halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment Not applicable.

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Mixture of the following components:

Dangerous components:

CAS: 109-16-0 EINECS: 203-652-6	2,2'-ethylenedioxydiethyl dimethacrylate ☒ Xi R36/37/38; ☒ Xi R43	35-<40%
CAS: 28553-12-0 EINECS: 249-079-5	di-"isononyl" phthalate (DINP) substance with a Community workplace exposure limit	5-<25%
CAS: 27813-02-1 EINECS: 248-666-3 Index number: 607-125-00-5	methacrylic acid, monoester with propane-1,2-diol ☒ Xi R36; ☒ Xi R43	10-<25%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8	α,α -dimethylbenzyl hydroperoxide ☒ T R23; ☒ C R34; ☒ Xn R21/22-48/20/22; ☒ O R7; ☒ N R51/53	1-<2.5%
CAS: 114-83-0 EINECS: 204-055-3	2'-phenyl acetohydrazide ☒ Xn R20/21/22; ☒ Xi R36/37/38; ☒ Xi R43	0.1-1%

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Instantly remove any clothing soiled by the product.

After inhalation Supply fresh air and call for doctor for safety reasons.

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

Do not induce vomiting; instantly call for medical help.

Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed Headache

Information for doctor Symptomatic treatment

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.01.2014

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Trade name AFD 2018

(Contd. of page 2)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

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

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires.

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions:

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

Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up:

Collect mechanically.

Dispose of contaminated material as waste according to chapter 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: Store only in the original container.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Do not store together with acids.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Store under dry conditions.

Storage temperature: <30 °C

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.01.2014

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Trade name AFD 2018

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

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see chapter 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

28553-12-0 di-"isononyl" phthalate (DINP)

WEL | Long-term value: 5 mg/m³

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Avoid contact with the eyes and skin.
Use skin protection cream for preventive skin protection.
Wash hands during breaks and at the end of the work.
Do not eat, drink or smoke while working.

Breathing equipment:

Not necessary if room is well-ventilated.

Short term filter device:

Filter A2-P2.

Protection of hands: Protective gloves (EN 374)

Material of gloves

Butyl rubber, BR

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.

Eye protection: Tightly sealed safety glasses (EN 166)

Body protection: Protective work clothing: DIN EN 13034

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Pasty
Colour:	Red
Smell:	Product specific
Odour threshold:	Not determined.

pH-value (- g/l) at 20 °C:	3-4
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Change in condition

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

Flash point:	> 93 °C
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(Contd. on page 5)

GB



Das Original

Page 5/8

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.01.2014

Version: 1

Revision: 19.01.2014

Trade name AFD 2018

(Contd. of page 4)

Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-inflammability:	Product is not selfigniting.
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C	1.0-1.1 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Partly soluble
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
dynamic:	Not determined.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents

Polymerization at elevated temperature.

10.4 Conditions to avoid strong heating

10.5 Incompatible materials: Various metals

10.6 Hazardous decomposition products:

carbon monoxide and carbon dioxide

nitrogen oxides (NO_x)

Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

109-16-0 2,2'-ethylenedioxydiethyl dimethacrylate

Oral	LD50	10750 mg/kg (rat)
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(Contd. on page 6)

-GB-

Safety data sheet according to 1907/2006/EC, Article 31

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Revision: 19.01.2014

Trade name AFD 2018

(Contd. of page 5)

80-15-9 α,α -dimethylbenzyl hydroperoxide

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

114-83-0 2'-phenyl acetohydrazide

Oral	LD50	270 mg/kg (mouse)
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AFD 2018

Inhalative	ATE	3 mg/L (-)
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Primary irritant effect:

on the skin: Irritating to respiratory system and skin

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

Sensitising

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

80-15-9 α,α -dimethylbenzyl hydroperoxide

EC50	7 (24h) mg/L (daphnia magna) M:1
LC50	3.9 (96h) mg/L (oncorhynchus mykiss) M:1

12.2 Persistence and degradability No further relevant information available.

Other information: The product is not biodegradable.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

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

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Waste material must be disposed of in accordance with Directive on waste 2008/98/EC as well as national and local regulations.

(Contd. on page 7)



Das Original

Page 7/8

Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name AFD 2018

(Contd. of page 6)

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
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by dangerous substances

Uncleaned packagings:**Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Non contaminated packagings can be treated like household garbage.

SECTION 14: Transport information**14.1 UN-Number**

ADR, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:**Marine pollutant:**

No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of**MARPOL73/78 and the IBC Code**

Not applicable.

Transport/Additional information:

Not dangerous according to the above regulations.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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.

(Contd. on page 8)

GB



Das Original

Page 8/8

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.01.2014

Version: 1

Revision: 19.01.2014

Trade name AFD 2018

(Contd. of page 7)

Relevant phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R23 Toxic by inhalation.

R34 Causes burns.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitisation by skin contact.

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R7 May cause fire.

Department issuing data specification sheet: 1ET

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