



# Safety data sheet

## 1. Substance/preparation and company identification

Trade name:

BKF S-Harz NV

Application of the substance/ the preparation:

Reaction resin

BEIL

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## 2. Hazards identification

**Classification of the substance or mixture**

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

Xi; Irritant

R37/38: Irritating to respiratory system and skin.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

F; Highly flammable

R11: Highly flammable.

**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 according to the latest editions of the EU-lists, and extended by company and literature data.

**Label elements**

**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**Code letter and hazard designation of product:**



Xi Irritant

F Highly flammable

**Hazard-determining components of labelling:**

methyl methacrylate

**Risk phrases:**

11 Highly flammable.



37/38 Irritating to respiratory system and skin.

43 May cause sensitisation by skin contact.

**Safety phrases:**

3/7 Keep container tightly closed in a cool place.

9 Keep container in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

24 Avoid contact with skin.

37/39 Wear suitable gloves and eye/face protection.

60 This material and its container must be disposed of as hazardous waste.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

**Chemical characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous Components

Components		
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Xi R37/38; Xi R43; F R11	50-100 %
CAS: 38668-48-3 EINECS: 254-075-1	1,1'-(p-tolylimino)dipropan-2-ol T R25 R52/53	2,5-10 %
CAS: 38668-48-3 EINECS: 254-075-1	1,1'-(p-tolylimino)dipropan-2-ol T R25 R52/53	0.5-2.5%
CAS: 99-97-8 EINECS: 202-805-4	N,N-dimethyl-p-toluidine T R23/24/25 R33-52/53	< 0.5%

**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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** If symptoms persist consult doctor.

**After swallowing:** If symptoms persist consult doctor.

**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:**

Foam

Sand



CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:**

Water

Water with full jet

**Special hazards arising from the substance or mixture**

Exothermic polymerization.

In case of fire, the following can be released:

Hydrocarbons

Carbon monoxide and carbon dioxide

**Advice for firefighters**

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information** Cool endangered receptacles with water spray.

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## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Wear protective clothing.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

**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 disposal information.

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## 7. Handling and storage

**Handling:**

**Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

Do not allow to enter sewers/ surface or ground water.

Store in a cool location.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.

Keep container tightly sealed.



Store in cool, dry conditions in well sealed receptacles.

**Maximum storage temperature:** 25°C

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

## 8. Exposure controls/personal protection

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

### Control parameters

Ingredients with limit values that require monitoring at the workplace:	
<b>80-62-6 methyl methacrylate</b>	
WEL	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm

· DNELs		
<b>80-62-6 methyl methacrylate</b>		
Dermal	DNEL Dermal	17 mg/kg/d (-)
Inhalative	DNEL Inhalation	208 mg/m <sup>3</sup> (-)

**Additional information:** The lists valid during the making were used as basis

### Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

#### Respiratory protection:

Self-contained respiratory protective device.

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### 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** Nitrile rubber, NBR

#### 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 goggles

**Body protection:** Protective work clothing



## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour Threshold:	no data available
pH:	no data available
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C
Flash point:	10°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	430°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	12.5 Vol %
Vapour pressure at 20°C:	38.7 hPa
Density at 20°C:	0.95 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20°C:	71 s (ISO 6 mm)
Solvent content:	
Organic solvents:	0.0 %
Other information	No further relevant information available.

## 10. Stability and reactivity

### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight.

**Possibility of hazardous reactions** Exothermic polymerization.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** Reacts with peroxides and other radical forming substances.

#### Hazardous decomposition products:

Hydrocarbons

Carbon monoxide and carbon dioxide

#### Additional information:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.



## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity:

LD/LC50 values relevant for classification:		
80-62-6 methyl methacrylate		
Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 5000 mg/kg (kan)
Inhalative	LC 50 (4h)	29,8 mg/l (rat)

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** No irritating effect.

**Sensitization:** Sensitization possible through skin contact.

#### Additional toxicological information:

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

Irritant

## 12. Ecological information

### Toxicity

Acquatic toxicity:	
80-62-6 methyl methacrylate	
EC 0	100 mg/l (Pseudomonas putida)
EC 3 (8d)	37 mg/l (Scenedesmus subspicatus od. quadricauda)
EC 50 (48h)	69 mg/l (Daphnia magna)
EC 50 (96h)	170 mg/l (Selenastrum capricornutum)
LC 50 (96h)	> 79 mg/l (fish)
NOEC	37 mg/l (Daphnia magna)

**Persistence and degradability** No further relevant information available.

**Behaviour in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

#### Additional ecological information:

##### General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it 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

Must be specially treated adhering to official regulations.

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

#### Uncleaned packaging:

##### Recommendation:

Packaging may be reused or recycled after cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**Recommended cleansing agents:** Acetone, ethylacetate



## 14. Transport information

### UN-Number

ADR, IMDG, IATA UN1866  
UN proper shipping name

### ADR

IMDG, IATA 1866 RESIN SOLUTION  
RESIN SOLUTION  
Transport hazard class(es)  
ADR



Class 3 Flammable liquids.  
Label 3

### IMDG, IATA



Class 3 Flammable liquids.  
Label 3  
Packing group  
ADR, IMDG, IATA II  
Environmental hazards:  
Marine pollutant: No  
Special precautions for user Warning: Flammable liquids.  
Danger code (Kemler): 33  
EMS Number: F-E,S-E  
Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code Not applicable.  
Transport/Additional information:  
ADR  
Tunnel restriction code D/E

## 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### **Code letter and hazard designation of product:**



Xi Irritant  
F Highly flammable

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

methyl methacrylate

### **Risk phrases:**

11 Highly flammable.  
37/38 Irritating to respiratory system and skin.  
43 May cause sensitisation by skin contact.

**Safety phrases:**

- 3/7 Keep container tightly closed in a cool place.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
24 Avoid contact with skin.  
37/39 Wear suitable gloves and eye/face protection.  
60 This material and its container must be disposed of as hazardous waste.

**National regulations:****Technical instructions (air):**

Class	Share in %
I	≤ 0,5
NK	50-100

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

**Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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**16. Other information****Relevant phrases**

- R11 Highly flammable.  
R25 Toxic if swallowed.  
R37/38 Irritating to respiratory system and skin.  
R43 May cause sensitisation by skin contact.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further information**

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.