

**SAFETY DATA SHEET****Boydur® Akrifleks**

Identification of the substance/ preparation and of the company undertaking:

Product Information: Boydur® Akrifleks Methacrylate (MMA)Based Self Leveling Floor

**Information About The Manufacturer:**

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**Information Of Ingredients:****Chemical properties:**

Three Components, MMA Based Self Leveling Floor

Cas No: 80-62-6

Index No: 607-035-00-6

EEC No: 201-297-1

**Hazards Identification:**

Description of Dangers

F Highly flammable Xi Irritant

Special guidelines concerning dangers to humans and the environment

When heated, formation of explosive vapours / air mixtures

Danger of bursting of closed systems to vigorous exothermic polymerization. Avoid uncontrolled polymerization.

n.a= not applicable; n.d.= not defined; \* = change

## Boydur® Akrifleks

### First- aid measures

- **General information:** Bring affected persons out of danger area. Remove contaminated or saturated clothing immediately.
- **Following inhalation:** Bring affected person outside and ensure that he/she is comfortable. Employ artificial respiration if breathing cases. Supply with medical care.
- **Following contact with skin:** On skin contact, rinse thoroughly with water and soap. With Continuous skin irritation, consult doctor.
- **Following eye contact:** Rinse thoroughly immediately with plenty of water for at least 5 minutes keeping eyelid open. Further treatment by eye doctor.
- **If substance has been swallowed:** Consult doctor immediately.  
**Following inhalation:** Beta methasone dosage aerosol spray  
Paraffinum subliquidum

### Fire-fighting measures

- Suitable extinguishing substances: Mist, quenching foam, quenching powder, carbon dioxide.
- Unsuitable extinguishing substances: Water, full jet
- Particular danger caused by material, its combustion products or gases produced
- In case of combustion or decomposition of the product, the fumes produced lead to irritations or inflammations of the respiratory tract.
- Formation of flammable or explosive vapour / air mixtures possible.
- Usual measures for chemical fires.
- Fire residues should be disposed of in accordance with the regulations.
- Water used to extinguish fire should not enter drainage systems, soil , or stretches of water.
- Special protective equipment
- In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit. In case of fire cool containers or take them to a safe place. danger of polymerization.

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### Accidental release measures

- Personal precautionary measures

Keep persons at a distance and stay on the weather side. Wear personal protective equipment; see section 8. Avoid contact with Product.

- Measures for environmental protection:

Do not allow entrance in sewage water stretches of water drainage systems.

- Procedure for cleaning / absorption

Remove all sources of ignition.

Ensure explosion proof ness.

Isolate and seal of f defective containers immediately. ( check, dam up, cover up)

Absorb with liquid-binding material (e.g. inert absorbent sand universal binder)

Absorb mechanically with suitable device and collect in a suitable container.

### Handling and storage

#### Handling

- Always close container tightly after removal of product.
- Protect from contamination heat sun rays.
- Keep away from sources of ignition- No Smoking

#### Directions for safe Handling

- Product is supplied in stabilized form.
- Stir and shake well before use.
- Open container carefully as it may be pressurized.
- Local ventilation if necessary.

#### Directions on fire and explosion safety

- Highly flammable
- Caution- electrostatic charge may occur.
- Keep away from sources of ignition. Do not smoke.
- danger of explosion.
- Water used to extinguish fire should not enter drainage systems, soil, or stretches of water.
- Ensure there are sufficient retaining facilities for water used to extinguish fire.
- Contaminated fire extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.

## Boydur® Akrifleks

- Fire residues should be disposed of in accordance with the regulations.
- Explosion- proof installations required.

### Boydur Akrifleks

- Storage
- Keep container tightly closed and store in a dry, well- ventilated place. Storage capability limited; dependent on Storage temperature.
- **Maximum storage period:** 6 Months
- Requirements for storage rooms:  
Ensure there is good room ventilation.  
**Maximum storage temperature:** 25 ° C

### Exposure controls / personal equipment

- Additional directions on design of technical equipment  
Ensure suitable suction /aeration at the work place and with the operational machinery.
- Components with work place related limits to be monitored

Name of substance: Methyl methacrylate

Cas- No: 80-62-6, Index-No: 607- 035- 00-6

Limits Values Unit, Methyl methacrylate

Mel (GB) 100 ml/ m3 = 410 mg/ m3 ( 1993)

TLV/TWA (USA) 100 ml/ m3 = 410 mg/ m3 (1993)

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- Personal protective equipment

Measures for general protection and hygiene

No eating' drinking' smoking, or snuffing tobacco at work.

Wash face and / or hands before break and end of work.

If the limits at the workplace are exceeded and / or larger amounts are released ( leakage, spilling, etc.) the indicated respiratory protection should be used.

Avoid contact with skin and eyes.

If there is the possibility of skin/eye contact the indicated hand/eye/body protection should be used.

- Respiratory protective equipment:

If workplace exposure limit is exceeded apply Respiratory protective equipment independent of surrounding air.

- Hand protection:

Wear protective gloves made of latex or rubber

- Eye Protection:

Basket-shaped glasses

- Body Protection

Protective clothing, antistatic and flame resistant

Change work clothes that have been moistened or saturated with product.

## Physical and chemical properties

### Description:

Boydur® Akrifleks is used as a self-leveling synthetic floor with a layer of thickness of about 1-4 mm. It mainly used in layer thickness of 1-2 mm on concrete, cement, and mosaic surface. It has good resistance, can be used inside and out side areas and gives a hygienic condition especially for fabrics in food and beverage industry, hospitals, and drug industry.

## Boydur® Akrifleks

### Properties:

- Indoor and outdoor application
- Seamless, wall-to-wall
- Hygienic, easy to clean
- Extremely durable
- Thermoplastic flexibility
- Fast curing period (approx. 1 Hour)
- Rich colors and different styles

### Att:

While it is a 2 component product, it needs experience for application.

### Technical Properties:

Delivery Form:	Liquid
Outflow Time (at 23 °C)	75-100 sec/4 mm
Refractive index $n_D^{20}$	1,44
Viscosity (at 20 °C):	130 mPa.s
Density (at 20 °C):	0,95 gr./ cm <sup>3</sup>
Color Index:	APHA < 50
Flash Point:	+ 11 ° C
Storage Life <20 ° C:	max 6 months
Processing Time (100g+ 5 g BpO 50 %)	25-30 min.

### Stability and reactivity

- Danger of bursting of closed systems to vigorous exothermic polymerization. Avoid uncontrolled polymerization.
- Conditions to be avoided
- Product polymerizes on contact with radical generating substances such as peroxides, azo compounds, heavy metal compounds and solutions.
- Additional guidelines:
- Product is supplied in stabilized form.

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## Boydur® Akrifleks

### Toxicological information

- No results of animal experiments with this preparation are available.
- The following data refers to the subsequently named constituents.
- Methyl methacrylate
- Acute oral toxicity; LD 50= 7872 mg/ kg, rat, literature
- Acute dermal toxicity: LD 50> 9 400 mg/ kg, rabbit, literature
- Acute inhalation toxicity: LC 50= 29.5 mg/1/ 4h, rat, literature
- Primary irritative effect to skin: non-irritative, rabbit, OECD 404

### Further Information

Following years of experience, upon proper handling no detrimental effects have become known.

### Ecological data:

- No ecotoxicological studies are available.
- The following data refers to the subsequently named constituents.
- Methyl methacrylate
- Environmental hazard
- Classification by Federal Environmental Agency ( Germany): group III “ Material with, based on current knowledge’ low potential for hazard.”

### Data on elimination (Persistence and degradability)

- Methyl methacrylate
- Degradation (28 Days)= 33.7 %, not easily biodegradable, OECD 301 C.
- Behavior in environmental fields
- Air contamination causes unpleasant odour.
- Methyl methacrylate Odour threshold: 0.5 until 5 mg/ m<sup>3</sup>
- Eco-Toxic effect Methyl methacrylate

### Bacterial toxicity:

- Pseudomonos putida, initial inhibition of cell multiplication at> 100 mg/l, evaluation of water-pollutive substances; UBA

### Aquatic toxicity:

- Acute fish toxicity: LC 50 ( 48 h) = 350 mg/ l, Leuciscus idus melanotus, literature.

## Boydur® Akrifleks

### Disposal Considerations

#### Product

#### Recommended:

- Must be brought to an authorized special waste incineration plant in accordance with the regulations on special waste following according to local regulations. European waste catalogue(EWC)
- 07 02 99: Wastes not otherwise specified
- Can be disposed of with domestic refuse following polymerization in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities,
- European waste catalogue ( EWC), 17 02 03: Plastic
- Bring decontaminated packaging to local recycling center

#### Recommended cleaning agent

- Acetone, Ethylacetate

### Transport Information

Dangerous according to the transport regulations

GGVS/ GGVE/RID/ADR/ IMDG Code/ ICAO-TI

yes

Surface transport ADR/ RID/ GGVS/ GGVE

### Classification

Class 3 Number 3 Letter b)

Danger Labels

No 3 (2) No (3) No (4) No

Orange warning plate 339/1247

Listed good according to art 7 GGVS no

Listed good according to art 7 aGGVS no

Accident data sheet Rail 30.039

Name of product ( proper shipping name surface transport) contains methyl methacrylate ' stabilized



## Boydur® Akrifleks

### Loading instructions/ comments

#### Road ( National)

- Measures a sper marginal note 2300 (6) GGVS/ADR
- and 300 (6) GGVE/RID have been applied.

#### Road (International)

- Measures a sper marginal note 2300 (6) GGVS/ADR
- and 300 (6) GGVE/RID have been applied.

#### Rail (National)

- Measures a sper marginal note 2300 (6) GGVS/ADR
- and 300 (6) GGVE/RID have been applied.

#### Rail ( International)

- Measures a sper marginal note 2300 (6) GGVS/ADR
- and 300 (6) GGVE/RID have been applied.
- Transport by vessel IMDG Code /GGVSee

### Clasification

- Class 3.2 Un- No 1247 Packaging Group II

### Danger Labels

- Label 3 Label(2) Label (3) Label(4)
- Danger of water Pollution
- Emergency action
- EmS 3-07 EmS (2)
- MFAG 330 MFAG (2)

### Proper Shipping Name

Methylmethacrylate, monomer, inhibited, solution

### Remarks

Keep away from accommodation and communal rooms.

### Air Transport

- ICAO-TI/IATA-DGR
- Classification
- Class 3 Un-No 1247 Packaging Group II
- Danger Labels
- Label 3 Label (2) Label (3) Label (4)

## Boydur® Akrifleks

### Proper Shipping Name

Methylmethacrylate, monomer, inhibited, solution

Remarks,Drill 3L

### Inland Navigation ADN/ADNR

- The transport classification for inland navigation has not yet been determined; please consult us before shipment is necessary.

### Regulatory Information

- Labelling of preparation in line with EC Directive (in accordance with supplement II of directive on preparations 88/379/EEC)
- Index Letter and indication of danger posed by product  
F Highly flammable, Xi Irritant

### Hazardous component(s)

- Methylmethacrylate

### R-phrases

- R 11-36/37/38-43
- Highly flammable
- Irritating to eyes, respiratory system and skin.
- May cause sensitization by skin contact.

### S- Phrases

- S 9-16-29-33
- Keep Container in a well-ventilated place.
- Keep away from sources of ignition-No smoking.
- Do not empty into drains.
- Take precautionary measures against static discharges.
- If preparation is feely available ( public product) , the following additional safety advise is required.:S2

### Keep out reach of children

### National Regulations

- Observe national regulations.

## Boydur® Akrifleks

### Other Information:

Further information on properties and safe handling of product can be obtained from the product brochures.

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