

## Safety Data Sheet

Boydur® 410

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

Product Information: Boydur® 410 Methacrylate Based Two Components Membrane Coating

### Information About The Manufacturer:

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### Information Of Ingredients:

Chemical properties:

Two Components, Methylmethacrylate Resin For Coating and Isolation

Cas No: 80-62-6

Index No: 607-035-00-6

EEC No: 201-297-1

### Hazards Identification:

Description of Dangers

F Higly flammable Xi Irritant

Special guidelines concerning dangers to humans and the environment

When heated, formation of explosive vapour / air mixtures

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

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

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### 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/sh is comfortable.
- Employ artificial respiration if breathing cases.

#### Following contact with skin

- On skin contact' rinse thoroughly with water.
- 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.

#### Instructions for the doctor

#### 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.
- 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.

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### 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.

### 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.

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

### 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/ m<sup>3</sup> = 330 mg/ m<sup>3</sup> ( 1993)

TLV/TWA (USA) 100 ml/ m<sup>3</sup> = 330 mg/ m<sup>3</sup> (1993)

### 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.

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### 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® 410 is a, three component, MMA based, floor and wall covering chemical.

#### Properties:

Boydur® 410 based a reactive methacrylate resin, which hardens rapidly after the addition of a hardener, even at low temperatures.

#### Shipment methods: liquid

Viscosity at 20 ° C : 350-450 mPa.s

And 4 mm Ford cup flow time at 20 : 90 - 100 sec .

Density at 20 ° C : 0.98 g/cm<sup>3</sup>

Refraktionindex n D 20 : 1.45

Number of colors : <50

Ignition temperature: + 13 ° C

Bunkering time: 20 °C for at least 12 months

### 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.

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### Additional guidelines:

- Product is supplied in stabilized form.

### 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: LD 50= 7093 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: 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:

- Pseudomonas 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.
- Disposal Considerations

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### 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 responsibly 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® 410

### 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

### Classification

- Class 3.2 Un- No 1247 Packagng 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)



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### 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)
- Hazardous component(s)
- Methylmethacrylate F,Xi

### 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.

### Other Information:

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

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