

Safety Data Sheet

Boydur® A10

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

Product Information:

Boydur® A10 Methacrylate Based One Component (Air drying)primer Resin

Information About The Manufacturer:

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Information Of Ingredients:

Chemical properties:

- Air Drying, One Component, Methylmethacrylate Resin for Priming the Surface
- 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 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

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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.

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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.
- 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/ 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® A10 serves as a primer for asphalt and concrete. On an asphalt substrate Primer A-10 functions as an adhesive. On Cement-bound substrates it also serves as an adhesive, and it seals the pores of the substrate.
- On highly absorbent surfaces, pre-priming with Boydur® A10 and a second priming Boydur® A20 is advisable.

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Properties:

- Boydur® A10 is an air-drying primer, which contains MMA as solvent. The drying time depends on the ambient temperature.
- Boydur® A10 is of low viscosity and therefore has a certain penetration capability into porous substrates. However, if absorbency is high it will be necessary to apply several coats of primer. With Primer A-10, adhesive strength ratings of 2-4 N/ mm² are attained on concrete. Primer A-10 can be spray applied.

Characteristic Data:

Form supplied: liquid

Viscosity range at °C: 10-30 mPa.s.

Outflow time: 37- 51 sec./ 3 mm.

Density at 20 °C : 1.02 g/cm²

Refractive Index, n D 20 : 1,44

Color Value: APHA < 50

Flash point: +10 °C

Shelflife,dark at < 20 ° C: min 6 Months

Processing:

Application method: With brushes or rollers, or by spraying

Consumption: Depending on absorbency, 150- 250 g/ m²

Drying Time: On Concrete and screed min 1 hour at + 20 °C

On Asphalt min. 8 Hours at +20 °C

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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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 (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/ m³

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.

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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 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

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Loading instructions/ comments

Road (National)

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

Road (International)

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

Rail (National)

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

Rail (International)

- Measures a spear 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 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)

ISO 9001, ISO 14001,TSE

Rev.Date: 8/7/15

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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

- Labeling 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.

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Other Information:

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

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