

Safety Data Sheet

Boydur® CK100

Identification of the substance/ preparation and of the company undertaking:
Product Information: Boydur® CK 100 is a MMA based, one component, surface paint.

Information About The Manufacturer:

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Information Of Ingredients:

Chemical properties:

Air Drying, One Component, Methylmethacrylate Paint For Road marking application

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.

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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® CK 100 is a MMA based, one component, surface paint over concrete, asphalt, mosaic surfaces.

Properties:

Boydur® CK 100 is an air-drying paint, which contains MMA. The drying time depends on the ambient temperature. Boydur® CK 100 is of low viscosity and therefore has a certain penetration capability into porous substrates. It is easy to use in inside and outside areas.

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Characteristic Data:

Delivery Form: Two components, fluid (A+ B components)

Color: Grey, Red, Green, Black

Use: 2000 kg. /m³

Compressive strength: 34 N/mm²

Bending Strength: 24 N/mm²

E-Module: 4350 N/mm²

Ball Impact Hardness: 41 N/mm²

Drying Period (20 ° C): ~ 1 Hour

Application Time (after mixing A+ B Components): ~ 25 minutes.

Storage: 12months in dark, dry, room temperature (Without opening the package)

Packages: 18 Kg. (A+ B Components)

Processing:

- Spray application with fully automatic 1-component spraying machines
- Applications with manual spray equipment and small spraying machines
- Application with mohair rollers

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.

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

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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.

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,

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- 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

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.

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Transport by vessel IMDG Code /GGVSee

- Clasification
- 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)

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.

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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.

Other Information:

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

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