



BOYTORUN KİMYA SANAYİ A.Ş.

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Boydur® M12

Safety Data Sheet — SDS

According to Regulation (EC) No 2015/830 · GHS02 · GHS07 · Signal Word: DANGER

DANGER

Signal Word

H225 · H315 · H317

H319 · H335 Hazard Statements

Flash Point: 110°C

Highly Flammable Liquid & Vapour

Doc. No
SDS-M12-EN-2019

Revision
Rev. 00

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Form No
SDS201911070316

01 PRODUCT AND COMPANY IDENTIFICATION

Product Name	BOYDUR® M12
Chemical Family	Resin
Identified Use	Surface repair mortar. Used for filling and repair of surfaces, anchorage and surface covering (min. 5 mm — max. 5 cm per layer). For additional thickness, apply subsequent layers after curing.
Manufacturer / Supplier	Boytorun Kimya Sanayi A.Ş. İ.E.T.T. Sitesi, 3. Blok, D:1, Emirgan / İstanbul / TURKEY
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02 HAZARDS IDENTIFICATION

— Classification — Regulation (EC) No 1272/2008 (CLP)

GHS Category	Code	Hazard Statement
Flammable Liquid	Flam. Liq. 2	H225 — Highly flammable liquid and vapour



Skin Irritation	Skin Irrit. 2	H315 — Causes skin irritation
Skin Sensitisation	Skin Sens. 1	H317 — May cause an allergic skin reaction
Eye Irritation	Eye Irrit. 2	H319 — Causes serious eye irritation
STOT Single Exposure	STOT SE 3	H335 — May cause respiratory irritation

— Pictograms | Signal Word: DANGER

GHS02 (Flame) — GHS07 (Exclamation Mark). Hazard-determining components for labelling: Methyl methacrylate; Dibenzoyl peroxide; Dicyclohexyl phthalate.

— Precautionary Statements (P)

- P102 — Keep out of reach of children.
- P210 — Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- P233 — Keep container tightly closed.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 — Do not get in eyes, on skin, or on clothing.
- P280 — Wear protective gloves, eye and face protection.
- P305+351+338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+313 — If eye irritation persists: Get medical advice/attention.
- P302+352 — IF ON SKIN: Wash with plenty of soap and water.
- P304+340 — IF INHALED: Remove person to fresh air. Keep at rest in a position comfortable for breathing.
- P403 — Store in a well-ventilated place.
- P501 — Dispose of contents/container in accordance with local regulations.

⚠ This product contains Dicyclohexyl phthalate — listed on the EU SVHC (Substances of Very High Concern) list. Toxic to reproductive system (Repr. 2 — Article 57c); Endocrine disrupting properties (Article 57f).

03 COMPOSITION / INFORMATION ON INGREDIENTS

Mixture — Chemical Analysis (Regulation (EC) No 1272/2008 [CLP]):

Component	Conc. % w/w	EC No	CAS No	CLP Classification
Acrylic Polymer	5–20	—	—	Not classified
Methyl methacrylate	5–20	201-297-1	80-62-6	Flam. Liq. 2 H225; STOT SE 3 H335; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Skin Sens. 1 H317
Calcite	5–15	207-439-9	471-34-1	Not classified



Barite	5–15	231-784-4	7727-43-7	Not classified
Dibenzoyl peroxide	0.5–1.5	202-327-6	94-36-0	Org. Peroxide B H241; Eye Irrit. 2 H319; Skin Sens. 1 H317
Dicyclohexyl phthalate Δ SVHC	0.5–1.5	201-545-9	84-61-7	Repr. Tox. 2 H361F; Skin Sens. 1 H317; Aquatic Chronic 1 H410

04 FIRST AID MEASURES

— Description of First Aid Measures

- GENERAL — Remove affected persons from hazardous area. Remove all contaminated clothing.
- INHALATION — Remove to fresh air. If recovery does not occur rapidly, seek medical attention.
- EYE CONTACT — Rinse eyes promptly with plenty of water while lifting eyelids. Continue rinsing for at least 15 minutes. Seek medical attention immediately.
- SKIN CONTACT — Wash skin thoroughly with soap and water. Seek medical attention if irritation persists.
- INGESTION — Do NOT induce vomiting. Rinse mouth with plenty of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

— Most Important Symptoms and Effects

- Eyes — Severe irritation or damage; burns, redness, swelling and watering.
- Skin — Irritation and possible allergic reaction.
- Inhalation — High vapour concentrations may cause CNS depression: dizziness, headache, nausea, shortness of breath.
- Ingestion — Irritation of mouth, gullet and gastrointestinal tract; nausea, vomiting, diarrhoea.
- Chronic — May affect central nervous system; respiratory tract irritation and narcotic effects.

Notes to Physician: Beta-metazone dosing aerosol spray after chemical inhalation; paraffin oil.

05 FIRE FIGHTING MEASURES

- Suitable extinguishing media: Dry chemical, carbon dioxide (CO₂) or foam.
- Unsuitable extinguishing media: Water jet — do not spray water into the leak source.
- Specific hazards: Highly flammable liquid. Keep away from all ignition sources. Airborne mixtures can be explosive.
- Hazardous combustion products: Carbon oxides, aldehydes, ketones, acetaldehyde, formaldehyde, acrolein and various hydrocarbons.
- Advice for fire-fighters: Wear self-contained breathing apparatus (SCBA) and fully protective suit.

06 ACCIDENTAL RELEASE MEASURES



— Personal Precautions & Emergency Procedures

- Wear protective clothing as described in Section 8. Remove all ignition sources. Do not operate electrical equipment.
- Take precautionary measures against static discharge. Use spark-proof tools and explosion-proof equipment.
- Provide good ventilation. Avoid eye and skin contact. Do not breathe gases or vapours.

— Methods and Material for Containment and Clean-Up

- Immediate clean-up of any spill is recommended. Build containment dike ahead of spill for recovery or disposal.
- Collect spill and place in a suitable container for disposal. If spilled on water, remove with skimmers, booms or absorbents.
- If soil contamination occurs, remove contaminated soil for remediation/disposal in accordance with applicable regulations.

— Environmental Precautions

- Prevent entry into sewers, basements or confined areas. Report any spillage into watercourses to the Environmental Agency or appropriate regulatory body.

07 HANDLING AND STORAGE

— Safe Handling Precautions

- Extremely flammable. May vaporise easily at ambient temperatures. Use away from heat, sparks, open flame or any other ignition source.
- Take precautionary measures against electrostatic discharges. Provide good ventilation.
- Avoid eye and skin contact. Do not eat, drink or smoke during use. Observe good chemical hygiene practices.
- Provide eyewash stations and safety showers in the working area.

— Conditions for Safe Storage

- Store away from food and beverages in a cool, dry, well-ventilated area at temperatures below 25°C.
- Keep tightly closed in original container. Keep away from incompatibles: oxidising agents, combustible materials, acids and alkalis.
- Maximum storage period: 6 months.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

— Occupational Exposure Limits

Component	TWA	STEL	DNEL / PNEC
Methyl methacrylate	50 ml/m ³ (208 mg/m ³)	100 ml/m ³ (416 mg/m ³)	DNEL: 208 mg/m ³ inhalation (worker); 13.67 mg/kg/day dermal (worker). PNEC: 0.94 mg/l freshwater
Dicyclohexyl phthalate	5 mg/m ³	15 mg/m ³	—



Dibenzoyl peroxide	5 mg/m ³	15 mg/m ³	—
Calcite	10 mg/m ³ (total dust)	5 mg/m ³ (resp.)	—
Barite	15 mg/m ³ (total dust)	5 mg/m ³ (resp.)	—

— Personal Protective Equipment

- Eyes — Safety glasses or face shields.
- Hands — Protective PVC, rubber or neoprene gloves.
- Skin and Body — Protective work clothing.
- Respiratory — NIOSH-approved respirator or equivalent. Provide good ventilation.

09 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste
Package Weight	18 kg (Component A: 3 kg / Component B: 15 kg)
Odour	Characteristic
Flash Point	110°C
Hardening Time (20°C)	1 hour
Compressive Strength	34 N/mm ²
Bending Strength	25 N/mm ²
E-Modulus	4,350 N/mm ²
Wear Resistance (TS 8103 / EN ISO 5470-1:2002)	205 mg
Capillary Water Absorption (TS EN 1062-3:2008)	0.004 kg/m ² ·h
Impact Resistance (TS EN ISO 6272-1:2006)	Class III
Adhesion (Pull-off)	Breaking Type B — 3.9 N/mm ²
Traffic Load Suitability	Yes — rigid systems
Average Critical Heat Flux	9.315 kW/m ²
Solubility in Water	Not soluble

10 STABILITY AND REACTIVITY



- Chemical Stability — Stable under prescribed storage and normal use conditions.
- Reactivity — Closed systems can initiate strong exothermic polymerisation. Avoid uncontrolled polymerisation.
- Conditions to Avoid — All ignition sources (spark or flame), high heat and direct sunlight.
- Incompatible Materials — Radical-forming agents (peroxides, azo compounds, heavy metal compounds and solutions); strong acids, alkalis and oxidising agents.
- Hazardous Decomposition Products — Carbon oxides, aldehydes, ketones, acetaldehyde, formaldehyde, acrolein and various hydrocarbons.

11 TOXICOLOGICAL INFORMATION

— Acute Toxicity

Parameter	Value
LD50 oral (rat) — Methyl methacrylate	7,872 mg/kg
LD50 dermal (rabbit) — Methyl methacrylate	9,400 mg/kg
LC50 inhalation (rat) — Methyl methacrylate	29.5 mg/l / 4 h
ATEmix oral	> 2,000 mg/kg
ATEmix dermal	> 2,000 mg/kg
ATEmix inhalation	> 20 mg/L / 4 h

— Toxicological Effects by Route of Exposure

- Inhalation — High vapour concentrations cause CNS depression: dizziness, headache, nausea, shortness of breath, loss of coordination.
- Skin — Skin irritation; may cause allergic reaction in sensitive individuals.
- Eyes — Severe irritation/damage; burns, redness, swelling, watering.
- Ingestion — Irritation of mouth, gullet and GI tract; nausea, vomiting, diarrhoea.
- Chronic Toxicity — May affect CNS; causes respiratory tract irritation and narcotic effects.
- Reproductive Toxicity — Contains Dicyclohexyl phthalate (Repr. 2 — H361F). Classification does not cover the end product.
- Carcinogenicity / Mutagenicity — None identified.

12 ECOLOGICAL INFORMATION

Parameter	Value
LC50 — Methyl methacrylate (Fish / 48h)	350 mg/L



EC50 — Methyl methacrylate (Pseudomonas putida / 48h)	100 mg/L
LC50 — Dicyclohexyl phthalate (Fish / 48h)	> 2 mg/L
LC50 — Dibenzoyl peroxide (Fish / 48h)	0.06 mg/L
Methyl methacrylate degradation (28 days)	33.7 %
PBT / vPvB Assessment	This product does not contain any PBT or vPvB substances.

Ecotoxicity: Not classified. Avoid releasing into the environment. Methyl methacrylate odour threshold: 0.5–5 mg/m³.
Bioaccumulative potential: Not expected.

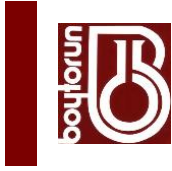
13 DISPOSAL CONSIDERATIONS

- This product is classified as hazardous waste.
- Dispose of contents and container in accordance with federal, state and local regulations.
- Avoid releasing to the environment. Do not discharge into drains, watercourses or soil.

14 TRANSPORT INFORMATION

UN Number	UN 1247
Proper Shipping Name	METHYL METHACRYLATE MONOMER, STABILIZED
Class	3
Packing Group	II
Transport Label	3.2
Tunnel Code	D/E
EmS Code	F-E, S-D
Marine Pollutant	Yes — Dicyclohexyl phthalate (MARPOL 73/78)
Applicable Regulations	IMDG · IATA/ICAO · ADR/RID/DOT

15 REGULATORY INFORMATION



— EU Legislation

- Regulation (EC) No 2015/830 — Classification, Labelling and Packaging (CLP).
- Regulation (EC) No 1907/2006 — Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

— REACH SVHC Compliance

Candidate List of Substances of Very High Concern (SVHC): Dicyclohexyl phthalate is listed as SVHC. Reproductive toxicity (Article 57c) and endocrine disrupting properties (Article 57f).

No Chemical Safety Assessment has been carried out. The regulatory information is not intended to be comprehensive — other local regulations may apply.

16 OTHER INFORMATION

— Full List of H-Statements (Referenced in Section 3)

- H225 — Highly flammable liquid and vapour.
- H241 — Heating may cause a fire or explosion.
- H315 — Causes skin irritation.
- H317 — May cause an allergic skin reaction.
- H319 — Causes serious eye irritation.
- H335 — May cause respiratory irritation.
- H361F — Suspected of damaging fertility.
- H410 — Very toxic to aquatic life with long-lasting effects.

— Document Information

Safety Data Sheet Issued By: Chemical Engineer Birgül Ankaralı — info@gbfhazirlama.com

Date Issued: 07.11.2019 | Contact Person: Sadun Boytorun — sadun@boytorun.com

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