

# SAFETY DATA SHEET

According to Regulation (EC) No 2015/830

Date Issued : 07.11.2019  
Form No: SDS201911070316

Revision Date :  
Revision No : 00

Product Name: **BOYDUR® M12**

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## 1.PRODUCT AND COMPANY IDENTIFICATION

**Product Name :** BOYDUR® M12

**Chemical Family :** Resin.

**Identified Use :** Surface repair mortar.

**Uses advised against :** Used for filling and repair of the surfaces and in mortar surface applications. Repairs, Anchorage and min. 5 mm thick and maximum 5 cm thick surface covering. At every 5 cm after drying additional casting is applied. Failure to do so will result in poor performance. Uses other than those identified are not recommended.

**Details of the manufacturer and supplier of the safety data sheet :**

**Company name:** Boytorun Kimya Sanayi A.Ş.

**Address :** İ.E.T.T. Sitesi,3. Blok, D:1, Emirgan/İstanbul /TÜRKİYE

**Factory address :** Maslak mahallesi, Dereboyu 2. Cad. Zağra İş Merkezi 14A Maslak- Sarıyer/İstanbul/TÜRKİYE

**Contact Person :** Sadun Boytorun

**Email:** sadun@boytorun.com

**Telephone no :** +90 212 229 18 29-34 **Fax no :** +90 212 229 18 59

**Emergency telephone number :** +90 542 437 90 05

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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture :**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

**Flam. Liq. 2; H225**

**GHS02**



**Skin Irrit. 2;H315**

**Eye Irrit.2;H319**

**Skin Sens. 1; H317**

**STOT SE 3;H335**

**GHS07**



**Hazard Statements (H):**

**H225 :** Highly flammable liquid and vapour.

**H315 :** Causes skin irritation.

**H317 :** May cause an allergic skin reaction.

**H319 :** Causes serious eye irritation.

**H335 :** May cause respiratory irritation.

**Precautionary Statements:**

**P102 :** Keep out of reach of children.

**P210 :** Keep away from heat/sparks/open flames/hot surfaces.No smoking.

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---

- 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/P313 If eye irritation persists**: Get medical advice/attention.  
**P302 /352 IF ON SKIN** : Wash with plenty of soap and water.  
**P333/P313 If skin irritation or rash occurs**: Get medical advice/attention.  
**P304/P340 IF INHALED** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**P312** : Call a POISON CENTER/doctor if you feel unwell.  
**P403** : Store in a well-ventilated place.  
**P501** : Dispose of contents/container in accordance with local regulations.

**Physical hazards** : Highly flammable.

**Human Health** : Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation.

**Environment** : Not classified.

**Label Elements** :

**Label In Accordance With (EC) No. 1272/2008**

**GHS Pictogram code** : GHS02. GHS07.

**Signal Word** : Danger.

**Hazard-determining components of labelling** : Methyl methacrylate; Dibenzoyl peroxide; Dicyclohexyl phthalate.

See hazard pictograms, H and P statements above.

**Other Hazards** : None.

This product does not contain any PBT or vPvB substances.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture: consisting of the following components (Chemical Analysis) :**

Components	Cons. % w/w	EC no	CAS no	Classification according to Regulation(EC) No. 1272/2008 [CLP]
Acrylic Polymer	5-20	-	-	-
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

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Calcite	5-15	207-439-9	471-34-1	-
Barite	5-15	231-784-4	7727-43-7	-
Dibenzoyl peroxide	0.5-1.5	202-327-6	94-36-0	Org. Peroksit B; H241 Göz Tah. 2 ; H319 Cilt Hassas. 1; H317
Dicyclohexyl phthalate	0.5-1.5	201-545-9	84-61-7	Ürm. Sis. Tok. 2;H361F Cilt Hassas.1;H317 Sucul Kronik 1, H410

**Composition Comments :** The data shown are in accordance with the latest EC Directives. One of its components, Dicyclohexyl phthalate is listed in the European Union's SVHC (SUBSTANCES OF VERY HIGH CONCERN) list. (Repr. 2 - Toxic to Reproductive System- Article 57c; Endocrine disrupting properties-Article 57f).

## 4. FIRST AID MEASURES

### Description of first aid measures :

**General information:** Remove affected persons from hazardous area. Take off all contaminated clothes.

**Inhalation:** Remove to fresh air. If rapid recovery does not occur, get medical attention.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention.

**Skin contact:** Wash skin thoroughly with water. Get medical attention if irritation persists.

**Ingestion:** Get medical attention immediately . Do not induce vomiting. Rinse mouth with plenty of water. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed :

#### Acute Effects:

**Eyes :** May cause severe eye irritation or damage. Symptoms include eye burns, redness, swelling and watering eyes.

**Skin :** Causes skin irritation, may cause an allergic skin reaction.

**Ingestion:** Causes irritation of the mouth, gullet and gastrointestinal tract if swallowed. Symptoms include nausea, vomiting and diarrhea.

**Inhalation :** Inhalation of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, coughing ,nausea , shortness of breath and loss of coordination.

**Chronic Effects :** May effect central nervous system causing respiratory tract irritation and narcotic effects.

**Indication of any immediate medical attention and special treatment needed :** Eyes, skin or respiratory system irritation or damage, skin allergy.

**Notes to physician :** Beta metazone dosing aerosol spray after inhalation of chemical, Paraffin oil.

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---

## 5. FIRE FIGHTING MEASURES

**Specific Hazards:** Highly flammable liquid. Keep away from all sources of ignition. Airborne mixtures can be explosive. Do not spray water into the leak source.

**Extinguishing Media:** Dry chemical, carbon dioxide or foam is recommended..

**Unsuitable Extinguishing Media :** Water jet.

**Unusual Fire and Explosion Hazards:** In case of fire carbon oxides, aldehydes, ketones, acetaldehyde, formaldehyde, acrolein and various hydrocarbons can be released.

**Advice for fire-fighters :** Wear self-contained respiratory protective device. Wear fully protective suit.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions,protective equipment and emergency procedures:** Wear protective clothing as described in section 8 of this safety data sheet. Remove all possible sources of ignition. Do not operate electrical equipment. Take precautionary measures against static discharge. Shut off leaks, if possible without personal risks. Provide good ventilation. Avoid eyes and skin contact. Do not breathe gases or vapours.

**Methods and material for containment and cleaning up :** Immediate cleanup of any spill is recommended. Build dike far ahead of spill for containment and later recovery or disposal of spilled material. Collect spill properly and place in a suitable container for disposal. If spilled on water, remove with appropriate equipment like skimmers, booms or absorbents. In case of soil contamination, remove contaminated soil for remediation or disposal in accordance with applicable regulations Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment.

**Environmental precautions :** Prevent entry into sewers, basements or confined areas. Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

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## 7. HANDLING AND STORAGE

**Usage :** Do not expose to heat and flame.

**Precautions for safe Handling:** : Extremely flammable. May vaporize easily at ambient temperatures. Use away from heat, sparks, open flame or any other ignition sources. Take precautionary measures against electrostatic discharges. Provide good ventilation. Avoid eyes and skin contact. Observe good chemical hygiene practices. Do not eat, drink or smoke during use. Avoid inhalation. Provide eyewash stations.

**Conditions for Safe Storage, including any incompatibilities:** Store away from food and beverages. Store in a cool, dry, well ventilated area under 25°C. Keep tightly closed in original container. Store and use away from heat, sparks, open flame or any other ignition sources. Do not eat, drink or smoke in the storage area. Keep away from incompatibles such as oxidizing agents, combustible materials, acids and alkalis. The maximum storage period is 6 months.

**Specific end use(s) :** The identified uses for this product are detailed in Section 1.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits :

**Methyl methacrylate** TLV/TWA : 50 ml/m<sup>3</sup> = 208 mg/m<sup>3</sup>  
TLV/STEL : 100 ml/m<sup>3</sup> = 416 mg/m<sup>3</sup>  
DNEL : 208 mg/m<sup>3</sup> (inhalation-worker)  
DNEL : 13.67 mg/kg/gün (dermal-worker)  
PNEC : 0.94 mg/l (freshwater)  
PNEC : 0.94 mg/l (marine water)

**Dicyclohexyl phthalate** TWA : 5 mg/m<sup>3</sup> STEL : 15 mg/m<sup>3</sup>

**Dibenzoyl peroxide** TWA : 5 mg/m<sup>3</sup> STEL : 15 mg/m<sup>3</sup>

**Calcite** TWA : 10 mg/m<sup>3</sup> (toplam toz) ; 5 mg/m<sup>3</sup> (solunabilir toz)

**Barite** TWA : 15 mg/m<sup>3</sup> (toplam toz) ; 5 mg/m<sup>3</sup> (solunabilir toz)

### Exposure controls :

**Engineering measures** : The usual precautionary measures are to be adhered to when handling chemicals. Provide good ventilation. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Do not eat, drink or smoke while working. Avoid contact with the eyes and the skin. Provide eyewash stations or safety showers in working area. Remove all possible sources of ignition. Take precautionary measures against electrostatic discharges.

### Personal Protection :

**Eye Protection**: Safety glasses or face shields.

**Hands Protection** : Protective PVC, rubber or neopren gloves.

**Skin and Body Protection**: Protective work clothing.

**Respiratory Protection** : Use NIOSH approved respiratory mask or device.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Paste.

**Package Weight** : 18 kg (A Component 3 kg, B component 15 kg)

**Odour** : Characteristic.

**pH (20°C)** : Not available.

**Flash Point** : 110°C.

**Boiling Point** : Not available

**Hardening time (20°C)**: 1 hour

**Compressive strength**: 34 N / mm<sup>2</sup>

**Bending strength**: 25 N / mm<sup>2</sup>

**E module BM/N / mm<sup>2</sup>**: 4350

**Wear resistance (TS 8103 EN ISO 5470-1: 2002)**: 205 mg

**Capillary water absorption and water permeability**: 0,004 kg/m<sup>2</sup>.h (TS EN 1062-3:2008)

**Impact resistance**: Class III (TS EN ISO 6272-1:2006)

**Adhesion strength by pulling and breaking**: Breaking type B, 3,9 N/mm<sup>2</sup>

**Traffic load**: Yes, used in rigid systems.

**Average critical heat flux**: 9,315 kWm<sup>2</sup>

**Average total light eclipse**: Min. 14,689 %

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**Relative density (25°C):** Not determined.

**Solubility :** Not soluble in water.

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## 10. STABILITY AND REACTIVITY DATA

**Chemical Stability :** Stable under prescribed storage and normal use conditions.

Extremely flammable liquid and vapor.

**Reactivity :** Closed systems can initiate strong exothermic polymerization. Avoid uncontrolled polymerization.

**Possibility of hazardous reactions :** No information required.

**Conditions to avoid :** Avoid all possible sources of ignition (spark or flame), high heat and direct sunlight.

**Incompatibility :**

**Materials to avoid :** The product polymerizes upon contact with radical forming agents such as peroxide, azo compounds, heavy metal compounds and solutions. Keep away from strong acids, alkalis and oxidizing agents.

**Hazardous Decomposition or By Products:** Carbon oxides, aldehydes, ketones, acetaldehyde, formaldehyde, acrolein and various hydrocarbons.

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## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure :** Exposure may occur via inhalation, ingestion, skin or eye contact.

**Acute toxicity :** No classification for toxicity.

**Inhalation :** Inhalation of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, coughing, nausea, shortness of breath and loss of coordination.

**Ingestion :** Causes irritation of the mouth, gullet and gastrointestinal tract if swallowed. Symptoms include nausea, vomiting and diarrhea.

**Eye contact :** May cause severe eye irritation or damage. Symptoms include eye burns, redness, swelling and watering eyes.

**Skin contact :** Irritant, may be allergic for sensitive skins.

**Sensitization :** May cause an allergic skin reaction.

**Chronic Toxicity :** May effect central nervous system causing respiratory tract irritation and narcotic effects.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) :** None.

**Carcinogenicity :** None.

**Toxicity for reproduction :** Contains dicyclohexyl phthalate which is toxic to reproductive system. Classification does not cover the end product.

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---

**Specific target organ toxicity – single exposure :**  
**STOT – Single exposure :** May cause respiratory irritation.  
**Specific target organ toxicity – repeated exposure :**  
**STOT – Repeated exposure :** None.

**Aspiration Toxicity:** None.

**LD<sub>50</sub> oral rat (Methyl methacrylate) :** 7872 mg/kg  
**LD<sub>50</sub> dermal rabbit (Methyl methacrylate) :** 9400 mg/kg  
**LC<sub>50</sub> inhalation rat (Methyl methacrylate) :** 29.5 mg/l/4 h

**ATE<sub>mix</sub> oral :** > 2000 mg/kg  
**ATE<sub>mix</sub> dermal :** > 2000 mg/kg  
**ATE<sub>mix</sub> inhalation :** > 20 mg/L/4 h

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity :** Not classified.  
Air pollution causes a bad odor. Methyl methacrylate odor threshold: 0.5, up to 5 mg /m<sup>3</sup>  
Avoid releasing into the environment.

**LC<sub>50</sub> (Methyl methacrylate):** 350 mg/L/48 h (Fish)  
**EC<sub>50</sub> (Methyl methacrylate):** 100 mg/L/48 h (Pseudomonas putida)

**LC<sub>50</sub> (Dicyclohexyl phthalate):** > 2 mg/L/48 saat (Fish)  
**LC<sub>50</sub> (Dibenzoyl peroxide) :** 0.06 mg/L/48 saat (Fish)

**Toxicity :** No data available.  
**Persistence and degradability :** Not easily degradable.  
Methyl methacrylate degradation (28 days) = 33.7 %.  
**Bioaccumulative potential :** No data available. Not expected.  
**Mobility in soil :** No data available.  
**Results of PBT and vPvB assessment :** This product does not contain any PBT or vPvB substances.  
**Other adverse effects :** No information required.

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## 13. DISPOSAL CONSIDERATIONS

**General information :** This product is hazardous waste.  
**Waste treatment methods :** Dispose according to federal, state and local official regulations. Avoid releasing to the environment.

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## 14. TRANSPORT INFORMATION

**General Classification (IMDG, IATA/ICAO, ADR/RID/DOT):**

**UN No :** 1247.

**Proper Shipping Name :** UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED.

**Class :** 3

**Packing Group:** II

**Transport label :** 3.2

**Tunnel Code :** D/E

**EmS Code:** F-E,S-D

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :** Not applicable.

**Environmental Hazards :**

**Environmentally hazardous substance/Marine pollutant :** Yes. Dicyclohexyl phthalate.

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## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture :**

**EU Legislation :**

Regulation (EC) No 2015/830 of the European Parliament and of the Council of 28 March 2015 on Classification, Labelling and Packaging of substances and mixtures (CLP) and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**REACH SVHC Compliance - Substances of Very High Concern.**

**Candidate List of SVHCs for authorisation :** Dicyclohexyl phthalate

**Approved Code of Practice :**

Safety Data Sheets for Substances and Preparations.

Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Chemical Safety Assessment :**

No chemical safety assessment has not been carried out.

The regulatory information is not intended to be comprehensive. Other local regulations may apply to this material.

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## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) has been fully issued according to the CLP and REACH regulations based on the information received from the product owner.



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Revision Date :

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**Safety Data Sheet Issued By :** Chemical Engineer Birgul Ankaralı (info@gbfhazirlama.com)

**Date Issued :** 07.11.2019

**Contact Person :** Sadun Boytorun : sadun@boytorun.com

## **Hazard(H) Statements in Article 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: Toxic to aquatic life with long-lasting effects.

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