

SAFETY DATA SHEET

According to "BY-LAW ON REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS (Official Gazette No: 23.06.2017- 30105)"

Preparation Date	15.06.2021
Revision Date	20.12.2024
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BORROOF BOR MINERAL ROOF HEAT INSULATION PAINTS

1- IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Use of the substance/mixture	: THERMAL INSULATION PAINT
Product Name	: BORROOF BOR MINERAL ROOF HEAT INSULATION PAINTS
Manufacturer Company Name	: Haskan Boya Sanayi ve Ticaret Limited Şirketi
Manufacturer Company Address	: Susuz Mahallesi Susuz Kümeevleri No:218/1 Yenimahalle/ANKARA
Phone	: 0312 366 72 71
E-mail	: info@haskanboya.com.tr
Authorized person to contact	: Abdullah Ekrem NEFES
Emergency Telephone	: In case of poisoning, call the national poison center (UZEM) 114 if necessary.
Emergency response center	: 112
Fire department	: 110

2- HAZARDS IDENTIFICATION

2.1 Physical Effect	: No physical effect available.
Potential Acute Effect on Health	: Canc.1 H350, Skin Sens.1A H317
Effects on environment	: No environmental effect available.

2.2 Classification of the substance or mixture

According to CLP;

Signal pictograms



GHS07

Signal word : Attention

Hazard statements:

H317: Causes an allergic skin reaction.

Precautionary Statements:

- P261: Avoid breathing vapour/spray.
P272: Do not take contaminated clothing out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P363: Wash contaminated clothing before reuse.
P405: Store locked up.
P501: Dispose of contents/container in accordance with Waste Management Regulations.

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2.3. Additional information

The relevant risk safety statements and hazard and precautionary statements are given in Chapter 16.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identification: Mixture

Chemical Name	EC No	CAS No	Content % (w/w)	Classification (CLP)
DEYCID E BST-K Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	911-418-6	55965-84-9	<0,3	Acute Tox.3 H301 Acute Tox.3 H310 Acute Tox.H330 Skin Sens.1B H314 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Eye Dam.1 H318 Skin Sens.1A H317
Mono ethylene glycol	203-473-3	107-21-1	<2	Acute Tox.4 H302
FOAMER ED Distillates (petroleum), solvent-dewaxed heavy paraffinic	265-169-7	64742-65-0	<0,4	Carc.1B H350
Titanium dioxide	236-675-5	13463-67-7	<10	Carc.2 H351

4- FIRST AID MEASURES

General Symptoms: In any case, it is better to consult a doctor. Do not give any substance by mouth to an unconscious person.

In case of inhalation: If breathing is difficult, move victim to fresh air and keep in a position comfortable for breathing. If respiratory signs show: Call NATIONAL POISON ADVICE CENTER 114 or doctor/physician.

In case of skin contact: Wash thoroughly with plenty of soap and water. Rinse your skin with water/shower. If skin irritation occurs: Get medical advice/attention.

In case of eye contact: Flush eyes with plenty of water for at least 15-20 minutes, lifting your eyelids. If your eyes are still red and you have a headache, contact your eye doctor.

If swallowed: Rinse mouth. Do not induce vomiting. Do not induce vomiting. Vomiting can only be done under the supervision of medical personnel.

Antidote: There is no known antidote. Symptomatic therapy is applied.

5- FIREFIGHTING MEASURES

5.1 Fire Extinguishers

Suitable Extinguishing Media: Use water spray, foam, dry powder, carbon dioxide to extinguish.

Unsuitable Extinguishers: None.

5.2 Special Hazards Caused by the Product: Carbon monoxide, toxic and dangerous gases are released during fire.

5.3 Protective Equipment for Fire Fighters

Personnel on duty during firefighting should use breathing apparatus and chemical protective clothing. Cool the packages in the fire area with water. Evacuate personnel to safe area. Avoid polluting the environment by using more fire extinguishers than necessary. Firefighting residues should not be allowed to reach sewers and groundwater.

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6- ACCIDENTAL RELEASE MEASURES

6.1 Personal Protective Measures

Wear suitable safety clothing and gloves as in Section 8. Make sure you have good ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Direct personnel to a safe area.

6.2 Environmental Precautions

Avoid mixing with sewers/surface water/ground water. In case of mixing with waters or sewers, notify the competent authorities. If there is no safety hazard, prevent further leakage or spillage.

6.3 Collection and Cleaning Processes

Cover the area with an absorbent material (sand, earth or suitable absorbent material). Clean contaminated areas, objects and surfaces carefully and in accordance with environmental laws. Collect wastewater for treatment.

6.4 References to Other Sections

See section 8 for personal protection.

See Chapter 13 for waste disposal.

7- HANDLING AND STORAGE

7.1 Handling

Protective measures for safe handling of the substance/preparation

Read special instructions before use. Wash thoroughly with soap and water after handling. Do not handle until all precautionary statements have been read and understood. Use personal protective equipment. IF exposed or concerned: Get medical advice/attention.

Technical Measures for Environmental Protection:

Prevent it from entering the sewer / surface water / groundwater. In case of mixing into waters or sewers, notify the authorized official authorities and inform the authorities. Make sure the environment is well ventilated. Keep away from sources of ignition and heat.

Keep firefighting equipment ready.

7.2 Conditions for Safe Storage, including any Incompatibilities:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/connect container and receiving equipment. Use explosion-proof electrical/ventilation/igniter material. Only use non-flammable tools. Take preventive measures against static discharge.

7.3 Specific End Uses

There are no special limitations when used correctly. Skin and eye contact should be avoided during the entire working process. Prevent its spread to the environment.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Occupational exposure limits: No data available.

8.2. Exposure controls: No data available.

8.2.1 Engineering Measures:

Equipment to be used where personal protection is required and appropriate protection methods are defined in accordance with the 'Personal Protective Equipment Regulation 9.2 25368 dated 9.2.2004. Make sure that personal protective equipment is used in accordance with the relevant regulations. Keep away from foodstuffs, beverages and animal feeds. Take off contaminated clothing immediately. Wash hands immediately at the end of work or after work break. Avoid direct contact with eyes and skin during manufacture. Do not eat or drink any food while using this material. Do not smoke.

8.2.2 Personal Protective Equipment

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See the label for details when using this product. In all other cases, use the Personal Protective Equipment below.

Respiratory Protection: Use a suitable mask.

Eye / Face Protection: It does not require special precautions, but if there is a risk of direct contact with the eyes, use suitable protective glasses.

Skin Protection: Wear protective clothing and PVC boots. Avoid product contact. Keep work clothes separate from your daily clothes.

Hand Protection: Chemical-proof gloves are not required. Use suitable gloves such as PVC gloves.

Thermal Damages: No data available.

8.2.3 Environmental Exposure Control

Work in accordance with the instructions to avoid effects on humans and the environment.

9- PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: Liquid

Odor : No data available

Color : white

9.2. Other informations

Density : No data available

Flash point : No data available

Boiling point : No data available

Explosive properties : No data available

Viscosity :No data available

Solubility (In water/alcohol/oil) : No data available

Vapor pressure : No data available

Distribution factor (n-octanol/water): No data available

pH: No data available

Melting point : No data available

Flammable properties : No data available

10- STABILITY AND REACTIVITY

10.1. Reactivity: No hazardous reactions when stored and handled according to regulations.

10.2. Chemical stability: Stable.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Keep away from all possible sources of ignition (flame or spark). Do not apply pressure to the containers; Do not cut, weld, solder, drill, sand, or expose to heat or ignition sources.

10.5 Substances to avoid: To prevent heat-related reactions, avoid the following substances: oxidizing agents, strong alkalis, strong acids

10.6 Hazardous Decomposition Products: Does not decompose under general conditions of use.

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11- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Substance or component	LD50 Oral values	LD50 dermal	LC 50 Inhalation
Mono ethylene glycol	7712 mg/kg	> 3500 mg/kg	> 2.5 mg/L
Titanium dioxide	> 5000mg/kg	-	> 6,82mg/L

- Skin irritation: Not irritant.
- Eye irritation: Not irritant.
- Skin sensitization: Causes allergic skin reactions.

12- ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Titanium dioxide:

The only limited EC/LC 50 values from single studies relate to the effects of dispersed nanosized TiO on the motility of Daphnia magna (48 h EC50: 19.3 mg/L; 48 h EC50: 103.9 mg/L; 48 h LC50: 284 mg / L), Ceriodaphnia dubia (48 h EC50: 2.41-2.54 mg / L) and Artemia salina (48 h EC50: 284.8 mg / L), Hyalella azteca (96 h LC50: 631 mg/L) survival and growth rate of Pseudokirchneriella subcapitata (72 h EC50: 415-1028 mg/L)

12.2 Persistence and Degradability: Persistence and Degradability do not apply.

12.3 Bioaccumulative Potential: No data on bioaccumulative potential.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

13- DISPOSAL CONSIDERATIONS

13.1. General Disposal Information of Product

Waste identification numbers/waste descriptions must be collected specifically for each industry class and process in accordance with local legislation, in line with the regulation on the general principles of proper disposal/product waste management and the regulation on control of hazardous wastes.

WASTE MANAGEMENT REGULATION published in the Official Gazette dated 02.04.2015 and numbered 29314 of the Ministry of Environment and Urbanization;

Waste paint and varnish: 080111

Contaminated packaging : 150110

Contaminated waste : 150202

14- TRANSPORT INFORMATION

ADR / RID

14.1 UN Number: Not classified as a dangerous

14.2 Suitable UN Transport Name: Not classified as a dangerous

14.3 Transport Hazard Class (s): Not classified as a dangerous

14.4 Packing Group: Not classified as a dangerous

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IMDG / IMO

14.5 UN number Not classified as a dangerous

14.6 Description of goods Not classified as a dangerous

14.7 Class Not classified as a dangerous

14.8 Packing group Not classified as a dangerous

ICAO / IATA

14.9 UN number Not classified as a dangerous

14.10 Description of goods Not classified as a dangerous

14.11 Class Not classified as a dangerous

14.12 Packing group Not classified as a dangerous

14.13 Ems: No data available.

14.4 Special precautions for user: Transport in user's premises: always transport in closed containers that are upright and secure. Provide persons carrying this product with necessary information on what to do in the event of an accident or spill.

15- REGULATORY INFORMATION

15.1 Private security, health and environmental regulations for the substance or mixture:

Related regulations;

- BY-LAW ON REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS (Official Gazette No: 23.06.2017- 30105)
- Classification of substances and mixtures, Packaging and Labelling Regulations - (11 December 2013 and 28848 Rep. No.)
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road (R.G.24/10/2013-28801)

15.2 . Chemical Safety Assessment: No data available.

16- OTHER INFORMATION

16.1. Changes: -

Revision date: -

16.2. Shortcuts

SDS: Safety Data Sheet

CAS: Service registration number of chemicals

EINECS: European Inventory of Chemical Substances

SEA: Regulation on Classification, Labeling and Packaging of Substances and Mixtures published in RG.-11/12 / 2013-28848

CLP: EU Directive 1272/2008 <Classification, Labeling and Packaging of Substances and Mixtures>

TWA: Measured or calculated time-weighted average for a specified reference time of 8 hours

STEL: The maximum exposure value that must not be exceeded for a period of 15 minutes unless otherwise specified.

Mg / m³: at 20 ° C and 101.3 KPa. (760 mm mercury pressure) The amount of material in milligrams of 1 m³ of air at pressure

ppm: the amount of material contained in 1 m³ of air in milliliters (ml / m³)

NIOSH: The National Institute for Occupational Safety and Health CEN: Normalization at the European Commission

NTP: (National Toxicology Program) National Toxicology Program

IARC: The International Agency for Research on Cancer

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OSHA: (Occupational Safety and Health Association)

EWC: (European Waste Catalog) European Union Waste Catalog

ADR: Transport of Dangerous Goods

RID: Transport of dangerous goods by rail

ADNR: Regulation on the Carriage of Dangerous Goods in Rivers

IMDG: Regulation on training and authorization within the scope of international code on dangerous cargoes transported by sea

ICAO: International Civil Aviation Organization

IATA: International Air Transport

16.3 Reference and Sources

- The key information sources used in the editing of this safety data sheet are as follows
- Data sheets for raw materials and product components
- Regulations and annexes on the preparation and distribution of safety data sheets for dangerous goods and preparations
- Regulation on Preparation of Safety Data Sheets for Hazardous Substances and Mixtures (13.12.2014- Official Gazette No. 29204) and its annexes
- UN ADR, IMDG, IATA LISTS
- ECHA and related EU directives, IUCLID (HSCB), HSDB (DANGEROUS DATA DATA BANK)

16.4. Classification and methodology for the classification of mixtures: In accordance with the Regulation on the Classification, Labeling and Packaging of Substances and Mixtures (Official Gazette No: 11.12.2013, 28848).

Skin Sensitization- Category 1A- H317-Calculation method

16.5. All hazard statements in Section 2 and 3:

H302: Harmful if swallowed.

H301: Toxic if swallowed.

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H318: Causes serious eye damage.

H317: Causes an allergic skin reaction.

H350: May cause cancer.

H351: Suspected of causing cancer.

H310: Lethal in contact with skin.

H330: Fatal if inhaled.

16.6. Other informations

This document has been issued by the person (s) certified in accordance with the regulations by making use of the safety data sheets provided by the manufacturer.

Preparer

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Other informations

Use and application information is given in the technical leaflets of the products. The details are based on the information we have today and do not represent any assurance on product quality, nor can any cited facts be cited. This Safety Data Sheet prepared for **BORROOF BOR MINERAL ROOF HEAT INSULATION PAINTS** was prepared on behalf of Haskan Boya Sanayi ve Ticaret Limited Şirketi.