

MATERIAL SAFETY DATA SHEET

EB 25 GRANIT - MARBLE AND STONE ADHESIVE

It is issued in accordance with provisions of "Republic of Turkey, Ministry of Environment and Urban Planning, Regulation on Safety Data Sheets relating to Hazardous Substances and Mixtures" dated 13 December 2014 and numbered 29204.

PART 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY/DISTRIBUTOR

1.1. Identification of Substance/Mixture:

Product name : Granit - Marble and Stone Adhesive

Product code : EB 25

1.2. Identified uses and inadvisable uses of substance or mixture

Identified uses : Marble and stone glues for natural stones.

Inadvisable uses : Inadvisable special uses have not been identified.

1.3. Information about Material Safety Data Sheet provider

Company name : ELKAY KİMYASAL MADDELER SAN. TİC. A.Ş.

Address : Cumhuriyet Mahallesi İsmet İnönü Caddesi No.35 41420

Çayırova- Kocaeli/Turkey

info@elkay.com.tr / www.elkay.com.tr

Telephone : +90 262 751 21 87-88

Fax : +90 262 751 21 89

GBF contact person : Gülcan IRMAK

1.4. Emergency phone number

Emergency phone number : ELKAY: +90 262 751 21 89

National emergency phone : National poison information center (UZEM): 114 Fire brigade: 110
Emergency health services: 112

PART 2: HAZARDS IDENTIFICATION

2.1. Classification of substance or mixture

Classification Republic of Turkey 28848

Physical damages Flammable Liquid 3 - H226

Medical damages Asp. Tox. 1- H304 /Skin Irrit. 2 - H315 / Eye Irrit. 2 - H319 /
STOT SE 3 H335 / Repr. 2 - H361d /STOT RE 1 - H 372

Environmental damages Aquatic Chronic 3- H 412

2.2. Label ingredients

Hazards mark:



GHS02



GHS07



GHS08

Warning word : Hazard

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Hazards phrases: **H226** : Flammable liquid and vapour.
H304 : May be fatal if swallowed and enters airways
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H361d : Suspected of damaging the unborn child.
H372 : Causes damage to organs through prolonged or repeated exposure.
H412 : Harmful to aquatic life with long-lasting effects

Precautionary phrases: **P102** : Keep out of reach of children.
Precaution: **P201** : Obtain special instructions before use.
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 : Take precautionary measures against static discharge.
P260 : Do not breathe dust/fumes/gas/mist/vapours/spray.
P273 : Avoid release to the environment.
P280 : Wear protective gloves/protective clothing/eye protection/face Protection.
Intervention: **P301+P310** : IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P313 : If exposed: Call a POISON CENTER or doctor/physician
P332+P313 : If skin irritation occurs: Get medical advice/attention.
P337+P313 : If eye irritation persists get medical advice/attention.
P370+P378 : In case of fire: Use foam, carbon dioxide, dry powder or water mist for extinguishing.
P314 : Get medical advice/attention if you feel unwell
Storage: **P405** : Keep under lock and key.
P403+P235 : Store in a well-ventilated place. Store in a closed container.
Disposal: **P501** : Dispose of contents/container to ... [... in accordance with local/regional/national/international

2.3. Other damages

Product does not contain any substance classified as PBT or vPvB.

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PART3: INFORMATION ABOUT COMPOSITION/INGREDIENTS

3.1. Substances

-None

3.2. Mixtures

Substance	C.A.S No-	EINECS	Concentration %	SEA T.C. 28848
				Class, H Phrases*
Styrene	100-42-5	202-851-5	20-30	FLAMMABLE LIQUID 3 H 226 ASP.TOX.1 H 304 SKIN IRRIT. 2 H 315 EYE IRRIT.2 H 319 ACUTE TOX. 4 H 332 STOT SE 3 H 335 REPR. TOX. 2 H 361d STOT RE 1 H 372 AQUATIC CHRONIC 3 H 412

PART4: FIRST AID MEASURES

4.1. Description of first aid measures

Eyes : If any, remove contact lens and rinse with plenty of water for 15 minutes by opening the eyelids. Seek medical attention if irritation persists.

Skin : Take off contaminated clothes, rinse with plenty of water. Seek medical attention if irritation persists.

Ingestion: Seek medical attention. If the patient is conscious, rinse the mouth thoroughly with plenty of water, and make him/her to drink several glasses of water or milk. Do not induce vomiting unless stated by medical staff. Never give anything to mouth of unconscious person. If vomiting occurs, help vomiting by turning head of patient to the right side in order that respiratory tracts remain open.

Inhalation: Take patient to fresh air. Loose the clothes tightening the body (tie, collar, belt etc.) by seating in a comfortable position to breathe. Seek immediate medical attention in case of respiratory distress.

Protection of First Aid Officials: First aid personnel should wear appropriate protective equipment during recovery.

Performing artificial respiration by mouth can be dangerous for first aid personnel.

4.2. Acute and subsequent important symptoms and effects

General information: See Part 11 for additional information about health hazards. The severity of described symptoms may vary depending on concentration and duration of exposure.

Eyes : It causes irritation.

Skin : It causes rash and swelling.

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Ingestion : It causes irritation. In case of ingestion, it has loss of aspiration.

Inhalation : Irritation, coughing, difficulty in breathing, chest tightness. Risk of serious damage to health in long inhalations. It is suspected to cause damage on unborn child.

4.3. First marks for medical attention and special treatment requirement

Information to be provided to the doctor: apply the symptomatic treatment.

PART5: FIRE FIGHTING MEASURES

5.1. Fire extinguishers

Suitable fire extinguishing materials: Use alcohol resistant foam, carbon dioxide, dry powder or water mist. Unsuitable fire extinguishing agents because of safety: High pressure water jet

5.2. Specific hazards arising from substance or mixture

Specific hazards : Containers can explode severely when heated, because excessive pressure arises within it. Vapors can create explosive mixtures with air.

Hazardous combustion products: In case of fire, it can release hazardous gasses or vapors (such as carbon monoxide (CO), carbon dioxide (CO₂)).

5.3. Advices for firefighting teams

Protective measures which should be taken during fire extinguishing: Discharge the area. Avoid breathing fire gasses and vapors. Before entering indoor areas, ventilate these areas. Cool containers exposed to heat with water spray and if there is not any risk, take these containers to elsewhere other than fire area. Avoid discharge/ spillage to the aquatic environment. If there is a danger of water pollution, inform the relevant authorities.

Special protective equipment for fire extinguishing teams: Wear positive pressure self-contained closed-circuit breathing apparatus and suitable protective clothing.

PART6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Any action involving personal risk should not be taken before receiving proper

training. Keep away unnecessary and unprotected persons from spillage. Wear protective clothes as indicated in Part 8 of this Material Safety Data Sheet. Purify yourself thoroughly after dealing with a spillage. Ensure that procedures

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and emergency trainings are provided for cleaning and disposal of wastes in place. Do not touch spilled material or do not walk on it. Discharge the area. Ensure sufficient ventilation. No smoking and do not use fire, spark or other sources of ignition near spillage. In case of insufficient ventilation, wear suitable respirator.

6.2. Environmental precautions

Environmental measures: Avoid spilling into sewer, overground and underground waters, soil. Big spillages: If environmental pollution occurs (sewer, water sources, soil or air) inform the relevant authorities.

6.3. Methods and materials for protection and cleaning

Spillage: Wear protective clothes as indicated in Part 8 of this Material Safety Data Sheet.
Cleaning: Do not smoke, do not use fire, spark or one of other sources of ignition near spillage. Collect the spillage and absorb it with sand, soil or other non-flammable substance. Place waste into labeled and sealed containers. Clean contaminated articles and areas thoroughly by considering environmental regulations. Wash contaminated area with plenty of water. Dangerous for environment. Do not discharge into the sewer.

6.4. References to other parts

All kinds of information about personal protection and disposal are provided in the Parts 8 and 13.

PART7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Using precautions: Ensure good ventilation. Wear protective clothes as indicated in Part 8 of this Material Safety Data Sheet. Keep away from foods, drinks and animal feeds. In order to minimize spillages, handle all packages and containers carefully. Keep away from heat/spark/flame/hot surfaces - No smoking. Substance flamed/exploded during use can form vapor-air mixture. Vapors can accumulate on the ground and within low-based areas. Use only explosive resistant and non-flammable material. It has doubt of causing damage on unborn child. If there is any exposure risk, pregnant or breastfeeding women should not work with this product. Avoid spilling on the aquatic environment. Do not handle before reading and understanding all precautionary phrases. Do not handle broken packages without protective equipment. Do not use empty containers again. When it is used, keep container tightly closed.
Recommendations: In case the skin is contaminated, wash immediately. Take off contaminated concerning general clothes and wash before use again. Do not eat and drink while using this occupational product. Wash your hands before eating, smoking and going to toilet. hygiene: Change work clothes every day before quitting the workplace.

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7.2. Conditions for safe storage including disagreements

Storage measures: Keep only in its original container. Keep the container tightly closed, in a cool and well-ventilated ambient. Remove all sources of ignition. Take measure against static electricity discharges.

7.3. Definite final uses

It is stated in Part 1.2 in a detailed manner.

PART8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Styrene

Limit value (TWA 8 - hours) : 50 ppm 215 mg/m³ 30 ppm 130 mg/m³
Limit Value (STEL 15 - minutes) : 100 ppm 425 mg/m³ 60 ppm 255 mg/m³

PNEC Fresh water ; 0.028 mg/l
Sea water ; 0.014 mg/l
Water intermittent oscillation; 0.04 mg/l
Waste water treatment sewage water; 5 mg/l
Residue fresh water; 0.614 mg/kg
Residue sea water; 0.307 mg/kg
Soil; 0,2 mg/kg

DNEC Employees - Inhalation; Acute/Short-term exposure-systematic effect: 289 mg/m³
Employees - Inhalation; Acute/Short-term exposure-local effect: 306 mg/m³
Employees - Dermal; Long-term exposure - systematic effect: 406 mg/kg
Employees - Inhalation; Long-term exposure - systematic effect: 85 mg/m³
General population - Inhalation;Acute/Short-term exposure- systematic effect:174.25 mg/m³
General population - Inhalation;Acute/Short-term exposure local effect: 182.75 mg/m³
General population - Dermal; Long-term exposure systematic effect: 343 mg/kg
General population - Inhalation; Long-term exposure systematic effect: 10.2 mg/m³
General population - Oral; Long-term exposure systematic effect: 2.1 mg/kg

8.2. Exposure controls

8.2.1. Suitable engineering Controls Ensure sufficient ventilation. In order to minimize exposure of employees, apply process protection methods, local discharge ventilation and other technical controls as a main method. If exposure of employees can not be checked sufficiently with technical control measures, personal protective equipment should be used.

8.2.2 Personal Protective Equipment

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Protection of Hands TS/EN

In order to protect hands against chemicals, gloves should comply with 374 Standard. Gloves manufactured from nitrile rubber should be used (material thickness > 0,1 mm, overflowing time < 30s).
In case of long-term contact, protective gloves manufactured from butyl rubber are recommended. (material thickness > 0,7mm, overflowing time more than 60 minutes) Check whether gloves maintain their protective properties during the use according to data stated by glove producer, and if any deterioration is determined, change gloves as soon as possible.

Skin Protection

Wear suitable protective clothes.

Eye Protection

Wear protective goggles.

Respiratory Protection

When there is no sufficient ventilation, use suitable respiratory mask.
Be careful that respirator is placed thoroughly, and replace the filter regularly.

Gas filters and combined filter cartridges should comply with TS/EN 14387 Standard.
Full face masks with replaceable filter cartridge should comply with TS/EN 136 Standard.
Half or quarter face mask respirators with replaceable filter cartridges should comply with TS/EN 140 Standard.

Environmental Exposure Controls

Conformity of ventilation emissions and business process equipments with environmental protection regulations should be controlled.

PART9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

Appearance	Paste
Color	Beige, White, Grey, Black
Odor	Characteristic
Odor threshold	No available information
pH	No available information
Melting/Freezing point	No available information
Flash point	32°C (89.6°F)
Evaporation rate	No available information
Flammability (solid, gas)	No available information

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Upper/Lower flammability or explosive limits	Lower flammability/explosion limit: 1.1 % Upper flammability/explosion limit: 7 %
Vapor pressure	No available information
Vapor density	No available information
Solubility	Insoluble in water.
Partition coefficient: n-octanol/water	No available information
Auto-ignition temperature	No available information
Viscosity	No available information
Explosive properties	No available information
Oxidizing properties	No available information

9.2. Other information

Solid content No available information

PART10: STABILITY AND REACTIVITY

10.1. Reaction

Reaction There is no risk to enter into reaction with other substances under normal use conditions.

10.2. Chemical stability

Stability Stable under normal use and storage conditions.

10.3. Possibility of harmful reaction

Possibility of harmful reaction Its vapors can form explosive mixtures with air. It can react with oxidizing agents.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flame and other sources of ignition. Formation of static electricity and sparks should be prevented. Containers can explode severely when heated, because excessive pressure occurs.

10.5. Substances to avoid

Substances to avoid Avoid acids and oxidizing agents.

10.6. Detrimental Degradation Products

Detrimental degradation products No degradation when used and stored in compliance with recommended conditions. In case of any thermal decomposition or fire, gases and vapors hazardous to health can be released.

PART11: TOXICOLOGICAL INFORMATION

11.1. Information about toxic effects

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<u>Acute toxicity LD₅₀(Oral)</u>	5000 mg/kg Rat
<u>Acute toxicity LC₅₀(Inhalation)</u>	11.8 mg/l/4h Rat
<u>Skin corrosion/irritation</u>	Animal data irritating.
<u>Serious eye damage/irritation</u>	It causes serious eye irritation.
<u>Respiratory Sensitization</u>	Classification criteria is not met based on available data.
<u>Skin sensitization</u>	Classification criteria is not met based on available data.
<u>Gamet mutagenicity Genotoxicity - in vitro</u>	Classification criteria is not met based on available data.
<u>Carcinogenicity</u>	Classification criteria is not met based on available data.
<u>IARC carcinogenicity</u>	It contains any agent that can be potential of being carcinogenic. It can be carcinogenic for IARC Group 2B People.
<u>Reproduction system toxicity Fertility</u>	Classification criteria is not met based on available data.
<u>Reproduction system toxicity developmental</u>	It has doubt of causing damage on unborn child.
<u>Specific target organ toxicity- Single exposure</u>	STOT SE 3 - H335 It can cause irritation of respiratory tract. Target organs-Respiratory tract, lungs.
<u>Specific target organ toxicity- of Repeated exposure</u>	STOT RE 1 - H372 It causes damage in organs as a result long term or repeated exposure.
<u>Aspiration loss</u>	Asp. Tox. 1 - H304 Fatal in case it penetrates to respiratory tract and if swallowed.
<u>General information</u>	Avoid contact during pregnancy / breastfeeding. Severity of identified symptoms can vary depending on concentration and duration of exposure.
<u>Inhalation</u>	Single exposure can cause following adverse effects: Irritation of nose, throat and respiratory tract. Respiratory distress. Cough.
<u>Ingestion</u>	It can cause irritation. Loss of aspiration if swallowed.

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After ingestion or vomiting, entrance of those in the stomach into lungs can cause chemical pneumonia.

Skin contact Redness. It irritates skin. Eye contact: It irritates eyes.
Way of exposure Ingestion, Inhalation Skin and/or eye contact. Target organs
Respiratory system, lungs.
Carcinogenicity
IARC carcinogenicity It can be carcinogenic for IARC Group 2B People.

PART12: ECOLOGICAL INFORMATION

General ecological information: Do not spill in sewer, soil or waters. Mixture was classified according to Republic of Turkey 28848 Annex-I. Valid health/ecological information for chemicals listed in Part 3 are as follows.

12.1. Toxicity Aquatic Chronic 3- H412 Long-lasting harmful effect in the aquatic environment.

Ecological information about components

Styrene

Fish	LC ₅₀ , 96 hours 4 mg/l,	Pimephales promelas (Minnow)
Aquatic invertebrates	EC ₅₀ , 48 hours 4.7 mg/l,	Daphnia Water flea
Aquatic plants	LC ₅₀ , 72 hours 1.4 mg/l,	Pseudokirchneriella subcapitata
Bacteria	EC ₅₀ , 30 minutes 500 mg/l	

12.2. Persistence and degradability Degradability of the product is unknown.

Ecological information about components

Styrene

Biodegradability aerobic 87 % biodegradable easily.

12.3. Bioaccumulative potential No suitable data about bioaccumulation.

Partition coefficient: / su n-octanol. 2.96

Bio concentration factor (BCF) 74

12.4. Mobility in soil Product is insoluble in water. Volatile liquid. Product contains easily evaporable organic solvents from all kinds of surfaces.

12.5. PBT and vPvB Assessment results Product does not contain any substance classified as PBT or vPvB.

12.6. Other adverse effects No available information.

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PART13: DISPOSAL CONSIDERATIONS

13.1. Waste processing methods

General information

Waste formation should be minimized or waste formation should be avoided everywhere possible. Dispose of wastes and residues according to local authority and management requirements.

Waste processing methods

Dispose of remaining and non-recyclable products through a licensed waste disposal institution. Contaminated package

should

be thrown in accordance with recycling or national waste management regulations.

PART14: TRANSPORT INFORMATION

14.1. UN Number

Un No. ADR/RID: 1866
Un No. IMDG : 1866
Un No. IATA : 1866
Un No. ADN : 1866

14.2. Suitable UN Transport Name

ADR/RID: Resin Solution
IMDG : Resin Solution
IATA : Resin Solution
ADN : Resin Solution

14.3. Transport Hazard Class(es)

ADR/RID Class : 3
Label : 3
IMDG Class : 3
Label : 3
IATA Class : 3
Label : 3
ADN Class : 3
Label : 3

Transport Label:

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14.4. Packaging Group

ADR / RID, IMDG, IATA, ADN : III

14.5. Environmental Damages

ADR / RID : NO
IMDG : NO
IATA : NO
ADN : NO

14.6. Special Measures for the User

Hazards Identification
Number ADR/RID : 30
Special Provisions : 640E
EMS : F-E, S-E
Tunnel Restriction
Code : (D/E)

14.7. Bulk transport according to MARPOL 73/78 Annex II and IBC code

No suitable information.

PART15: REGULATORY INFORMATION

15.1. Safety, health and environment regulation peculiar to substance or mixture

National regulations Regulation on Classification, Labeling and Packaging of Substances and Mixtures dated 11 December 2013 and numbered 28848.
Republic of Turkey, Ministry of Environment and Forestry, Regulation on Classification, Packaging and Labeling of Dangerous Substances and Preparations dated 26 December 2008 and numbered 27092.
Occupational Health and Safety Law No. 6331.
Regulation on Health and Safety Measures in the Studies with Chemical Substances.
Regulation on Use of Personal Protective Equipments in the Workplaces
Regulation on Control of Dangerous Wastes

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Chemical Safety Assessment Chemical safety assessment has not been made.

PART16: OTHER INFORMATION

Classification conditions according to regulation dated 11 December 2013 and numbered 28848	FLAM. LIQ.3	Flammable Liquid	Category 3
	ASP.TOX.1	Aspiration Toxicity	Category 1
	SKIN IRRIT. 2	Skin/Leather irritation	Category 2
	EYE IRRIT.2	Eye irritation	Category 2
	STOT SE. 3	Specific target organ toxicity Single exposure	Category 3
	REPR. TOX. 2	Toxic to reproduction system	Category 2
	STOT RE 1	Specific target organ toxicity Repeated exposure	Category 1
	AQUATIC CHRONIC 3	Long-lasting harmful effect in the aquatic environment	Category 3

Hazards phrases:

H226 : Flammable liquid and vapor.
H304 : Fatal if it penetrates into respiratory tract and it is swallowed.
H315 : It causes skin irritation.
H319 : It causes serious eye irritation.
H335 : It causes respiratory irritation.
H361 : It has doubt of causing harm on unborn child or damaging reproduction.
H372 : It causes damage in organs as a result of long-term or repeated exposure.
H412 : Long-lasting and harmful effects in the aquatic environment.

Abbreviations:

SEA : Regulation on classification, labeling and packaging of substances and mixtures.
UZEM : National poison information center
Cas No : Chemical Abstracts Service
EINECS No: A descriptive list of all substances in the European Union community market.
Un Number : Numbers to be requested from you by international courier and airway companies if you demand to transport any material which can be considered as dangerous.
TWA : Short-term exposure limit
STEL : Time-weighted average exposure limit
PNEC : Predicted No-Effect Concentration - Environmental hazards
DNEL : Derived No-Effect Level (for people)
LD 50 : Lethal dose 50 %



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Chapter I

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LC 50	: Lethal concentration 50 %
IARC	: International Agency for Research on Cancer
PBT	: Permanent and bioaccumulative and toxic
vPvB	: Very permanent and very bioaccumulative
ADR	: European agreement concerning the international carriage of dangerous goods by road
IMDG	: International Maritime Dangerous Goods Code
RID	: Regulation on the international carriage of dangerous goods by rail
IATA(DGR)	: International air transport association dangerous goods regulation
ADN	: European agreement concerning international carriage of dangerous goods by inland waterways

Issuer of Material Safety Data Sheet:

Name/Surname: Gülcan İrmak

Address: Cumhuriyet Mahallesi İsmet İnönü Caddesi No.35 41420 Çayırova- Kocaeli/Turkey

Certificate no : GBF- A-0-2286

Date of Certificate: 23.03.2016

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Information contained in this material safety data sheet are based on our current knowledge and experience and describe the product with regard to safety requirements. Information does not describe the specifications of product (product specification). Any agreed specification or conformity of product with a specific purpose cannot be relied on information contained in this material safety data sheet. Product purchaser is responsible for protection of intellectual property rights and conformity with current laws and regulations in force.