

MATERIAL SAFETY DATA SHEET

EpoGRANİT EPOXY 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 : EPOGRANİT EPOXY ADHESIVE

Product code : EG 2001 - EG 2002 - EG 2003

1.2. Identified uses and inadvisable uses of substance or mixture

Identified uses : It is designed in paste form and is used for bonding, repairing and filling of materials such as mortar bolts, natural stones, bricks, ceramics, metals, concrete pipes and tanks, fiberglass elements, concrete slabs and stair plates, concrete columns, superficial concretes.

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

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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 according to Regulation (EC) No 1272/2008

Medical damages Skin Irrit. 2 - H315 / Skin sens. 1- H317 / Eye Irrit. 2 - H319 /

Environmental damages Aquatic Chronic 2 - H 411

2.2. Label ingredients

Hazards mark:



GHS07



GHS09

Warning word : Attention

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Hazards phrases: **H315** : Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H411 : Harmful to aquatic life with long-lasting effects.

Precautionary phrases: **P261** : Avoid breathing dust/fume/gas/mist/vapors/spray.
Precaution: **P264** : After handling, wash your hands thoroughly with soapy water.
P272 : Contaminated work clothing should not be allowed out of the workplace.
P273 : Avoid release to the environment.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.
P391 : Collect spillage.

Intervention: **P305+P351+P358** : 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+P352 : IF ON SKIN: Wash with plenty of water/...
P333+P313 : If skin irritation or a rash occurs: Get medical advice/attention.

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.

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*	
bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight · 700)	25068- 38-6	500-033-5	40-45	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Aquatic Chronic 2 H411	H315 H317 H319

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oxirane, mono [[C ₁₂₋₁₄ - alkyloxy)met hyl] derivs.	68609- 97-2	271-846-8	5-7	Skin Irrit. 2 Skin Sens. 1	H315 H317
Polyamide Resin	37219- 83-3		40-45		

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.

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

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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 into 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 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.
Methods:

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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.

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

bisphenol-A-(epichlorhydrin)

epoxy resin (number average molecular weight · 700)

Short time - Dermal 8.3 mg/kg bw/day - Employees

Short time - Inhalation 12.3 mg/m - Employees

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Long time - Dermal	8.3 mg/kg bw/day	- Employees
Long time - Inhalations	12.3 mg/m	- Employees
Short time - Dermal	3.6 mg/kg bw/day	- General
Short time - Inhalation	0.75 mg/m	- General
Short time - Oral	0.75 mg/kg bw/day	- General
Long time - Dermal	3.6 mg/kg bw/day	- General
Long time - Inhalation	0.75 mg/m	- General
Long time - Oral	0.75 mg/kg bw/day	- General

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



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.

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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	Gel Form
Color	Light Grey
Odor	Characteristic
Odor threshold	No available information
pH	No available information
Melting point	No available information
Boiling point	>200°C (DIN51751)(1013 HPA)
Flash point	>148°C (DIN51751) Pensky-Martens Closed cup ASTM D 93
Flammability (solid, gas)	No available information
Upper/Lower flammability or explosive limits	No available information
Vapor pressure	No available information
Vapor density	No available information
Solubility	Water and oil do not interpretation
Partition coefficient: n-octanol/water	No available information
Auto-ignition temperature	Is not spontaneously combustible
Viscosity	No available information
Explosive properties	No available information
Oxidizing properties	No available information

9.2. Other information

Decomposition temperature	>200°C
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PART10: STABILITY AND REACTIVITY

10.1. Reaction

Reaction	Hazardous reactions are not known for proper storage and use.
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10.2. Chemical stability

Stability	Hazardous reactions are not known for proper storage and use.
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10.3. Possibility of harmful reaction

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Possibility of harmful reaction	May react with oxidizing agents.
10.4. Conditions to avoid	
Conditions to avoid	Avoid extreme temperatures.
10.5. Substances to avoid	
Substances to avoid	Keep strong acids, strong bases and strong oxidizing agent away.
10.6. Detrimental Degradation Products	
Detrimental degradation products	No hazardous polymerisation

PART 11: TOXICOLOGICAL INFORMATION

Bisphenol-A-(epichlorhydrin)

epoxy resin (number average molecular weight · 700)

Acute toxicity LD ₅₀ (Oral)	30000 mg/kg Rat
Acute toxicity LD ₅₀ (Skin)	23000 mg/kg Rat.
Skin corrosion/irritation	Moderately irritating to skin and mucous membranes.
Serious eye damage/irritation	Slightly irritating.
Respiratory Sensitization	Slightly irritating.
Skin sensitization	Classification criteria is not met based on available data.
Carcinogenicity	Negative.
Reproduction system toxicity Fertility	Classification criteria is not met based on available data.
Reproduction system toxicity developmental	Classification criteria is not met based on available data.
Specific target organ toxicity-Single exposure	Classification criteria is not met based on available data.
Specific target organ toxicity-exposure	Classification criteria is not met based on available data.of Repeated
Aspiration loss	Penetration into the respiratory tract and is lethal if swallowed.

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General information	Avoid contact during pregnancy / breastfeeding. Severity of identified symptoms can vary depending on concentration and duration of exposure.
Inhalation	Single exposure can cause following adverse effects: Irritation of nose, throat and respiratory tract. Respiratory distress. Cough.
Ingestion	It may cause irritation. Harmful if swallowed.
Skin contact	Rash. It irritates skin. Eye contact: It irritates eyes.

Oxirane, mono [(C₁₂₋₁₄-alkyloxy)methyl] derivs.

<u>Acute toxicity LD₅₀(Oral)</u>	19200 mg/kg Rat
<u>Acute toxicity LD₅₀(Skin)</u>	>23000 mg/kg Rabbit.
<u>Skin corrosion/irritation</u>	Moderately irritating to skin and mucous membranes.
<u>Serious eye damage/irritation</u>	Slightly irritating.
<u>Respiratory Sensitization</u>	Slightly irritating.
<u>Skin sensitization</u>	Classification criteria is not met based on available data.
<u>Carcinogenicity</u>	Negative.
<u>Reproduction system toxicity Fertility</u>	Classification criteria is not met based on available data.
<u>Reproduction system toxicity developmental</u>	Classification criteria is not met based on available data.
<u>Specific target organ toxicity- Single exposure</u>	Classification criteria is not met based on available data.
<u>Specific target organ toxicity- Repeated exposure</u>	Classification criteria is not met based on available data.of
<u>Aspiration loss</u>	Penetration into the respiratory tract and is lethal if swallowed.

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General information	Avoid contact during pregnancy / breastfeeding. Severity of identified symptoms can vary depending on concentration and duration of exposure.
Inhalation	Single exposure can cause following adverse effects: Irritation of nose, throat and respiratory tract. Respiratory distress. Cough.
Ingestion	It may cause irritation. Harmful if swallowed.
Skin contact	Rash. It irritates skin. Eye contact: It irritates eyes.

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

Ecological information about components

Bisphenol-A-(epichlorhydrin)

epoxy resin (number average molecular weight · 700)

LC ₅₀ , 96 hours	1.3 mg/l,	Daphnia
EC ₅₀ , 48 hours	2.1 mg/l,	Daphnia
LC ₅₀ , 72 hours	>11 mg/l	Algae
EC ₅₀ , 3 hours	>100 mg/l	Activated sludge

Additional information on ecology

Biological effects: Hazard for drinking water supplies. Water, waste water, or do not let the soil.

12.2. Persistence and degradability Bio - degradation.

12.3. Bioaccumulative potential No data available.

12.4. Mobility in soil If the product enters the soil, it can move and contaminate groundwater.

12.5. PBT and vPvB Does not contain.

Assessment results

12.6. Other adverse effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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PART13: DISPOSAL CONSIDERATIONS

13.1. Waste processing methods

General information

Do not allow to enter drains or watercourses.

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 : 3082
Un No. IMDG : 3082
Un No. IATA : 3082
Un No. ADN : 3082

14.2. Suitable UN Transport Name

ADR/RID: DANGEROUS GOODS FOR THE ENVIRONMENT, LIQUID, N.O.S (EPOXY RESIN DERIVATIVES)
IMDG : DANGEROUS GOODS FOR THE ENVIRONMENT, LIQUID, N.O.S (EPOXY RESIN DERIVATIVES)
IATA : DANGEROUS GOODS FOR THE ENVIRONMENT, LIQUID, N.O.S (EPOXY RESIN DERIVATIVES)
ADN : DANGEROUS GOODS FOR THE ENVIRONMENT, LIQUID, N.O.S (EPOXY RESIN DERIVATIVES)

14.3. Transport Hazard Class(es)

ADR/RID CODE : F1
ADR/RID Class : 9 (M6)
Label : 9
IMDG Class : 9 (M6)
Label : 9
IATA Class : 9 (M6)
Label : 9

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ADN Class : 9 (M6)
Label : 9

Transport Label:



14.4. Packaging Group

ADR / RID, IMDG, IATA, ADN : III

14.5. Environmental Damages

ADR / RID : YES
IMDG : YES
IATA : YES
ADN : YES

14.6. Special Measures for the User

Hazards Identification
Number ADR/RID : 90
Special Provisions : 274-335 375 601
EMS : F-A, S-F
Tunnel Restriction
Code : (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.

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Regulation on Use of Personal Protective Equipments in the Workplaces
Regulation on Control of Dangerous Wastes

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	Skin Irrit.2 Eye Irrit.2 Skin Sens. 1 Aquatic Chr. 2	Skin irritation Eye irritation Skin Sensitivity Aquatic Chronic	Category 2 Category 2 Category 1 Category 2
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Hazards phrases:

H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H411 : Harmful to aquatic life with long-lasting effects.

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 %
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



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Chapter I

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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:

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Certificate no : GBF- A-0-2286

Date of Certificate: 23.03.2016

Date of Expiry: 23.03.2019

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.