Part 1
SAFETY DATA SHEET
NITOBOND EP T KOMPONENT A
29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets"

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Safety data sheet number PRD00435

Product Name NITOBOND EP T KOMPONENT A

Pure substance/mixture Mixture

Contains CALCIUM CARBONATE, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, ALKYL GLYCIDYL ETHER C12/C14, EPOXY RESIN (Type F) (Number average MW <= 700)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Key Component of Two-Component Epoxy Adhesion System

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier
Fosroc Yapi Kimyasallari San. Ve Tic. A.S.
Aydinevler mah. Sanayi cad. Demirtas Plaza No:13 Kat:3 34854
Maltepe- Istanbul
TURKIYE
+90 216 463 6776
E-mail address enquiryturkey@fosroc.com

1.4. Emergency telephone number

Emergency telephone number National Poison Information Center (UZEM) - Turkey: 114 Emergency Medical Services - Turkey: 112 +90 262 728 15 07

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification T.C. 28848

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)

Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains CALCIUM CARBONATE, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, ALKYL GLYCIDYL ETHER C12/C14, EPOXY RESIN (Type F) (Number average MW <= 700)

Signal word
Warning

Hazard statements
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P312 - Call a POISON CENTER or doctor if you feel unwell
P391 - Collect spillage

Additional information
This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	Weight-%	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CALCIUM CARBONATE	471-34-1	25 - <50%	207-439-9	
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average	25068-38-6	25 - <50%	500-033-5	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319)

molecular weight ≤ 700)				Skin Irrit. 2 (H315) Skin Sens. 1 (H317)
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	1675-54-3	5 - <10%	216-823-5	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)
ALKYL GLYCIDYL ETHER C12/C14	68609-97-2	5 - <10%	271-846-8	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)
EPOXY RESIN (Type F) (Number average MW <= 700)	9003-36-5	2.5 - <5%	500-006-8	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention if irritation persists or later develops, or if discomfort, coughing or other symptoms persist.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact May cause an allergic skin reaction. Wash off immediately with soap and plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	CO_2, dry chemical, dry sand, alcohol-resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO_2).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.
Other information	Refer to protective measures listed in Sections 7 and 8. Ventilate the area.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Refer to protective measures listed in Sections 7 and 8. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of spill to collect runoff water.
Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

General hygiene considerations Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Wear protective nitrile rubber gloves	0.4 mm	
Short term	Wear protective butyl rubber gloves	0.6 mm	

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Recommended filter type: It should comply with European Standard EN 140, Filter type A, brown.

General hygiene considerations Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Viscous Liquid
Color	white
Odor	Slight.
Odor threshold	Not determined

Property	Values	Remarks • Method
pH	No data available	Not established
Melting point / freezing point	No data available	Not determined
Initial boiling point and boiling range	No data available	Not determined
Flash point	> 150 °C	Not applicable
Evaporation rate	No data available.	Not determined
Flammability	No data available.	Not applicable
Flammability Limit in Air		Not applicable
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available.	Not determined
Relative vapor density	No data available	Not determined
Relative density	1.12	@ 25 °C
Water solubility	Insoluble in water	Not determined
Solubility(ies)	No data available.	Not determined
Partition coefficient	No data available.	Not applicable
Autoignition temperature	No data available	Not applicable
Decomposition temperature		Not applicable
Kinematic viscosity	No data available.	Not determined
Dynamic viscosity	No data available.	Not determined
Explosive properties	Not considered to be explosive.	
Oxidizing properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	

9.2. Other information

Softening point	No information available.
Molecular weight	No information available.
VOC content	No information available
Liquid Density	No information available.
Bulk density	No information available.
Particle characteristics	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known hazardous reactivity associated with the product when used as recommended.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity

Acute toxicity
The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	7,505.20 mg/kg
ATEmix (dermal)	2,465.10 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	3.05 mg/l
ATEmix (inhalation-vapor)	99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CALCIUM CARBONATE	= 6450 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3 mg/L (Rat) 4 h
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	= 11400 mg/kg (Rat)	-	-
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	= 11300 µL/kg (Rat)	= 20000 mg/kg (Rabbit)	-
ALKYL GLYCIDYL ETHER C12/C14	= 17100 mg/kg (Rat)	> 3987 mg/kg (Rabbit)	-
EPOXY RESIN (Type F) (Number average MW <= 700)	> 2 g/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability The product has not been proven to be degradable under anaerobic conditions.

12.3. Bioaccumulative potential

Bioaccumulation The material does not bioaccumulate.

Chemical name	Partition coefficient
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	2.33
ALKYL GLYCIDYL ETHER C12/C14	3.77

12.4. Mobility in soil

Mobility in soil Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
CALCIUM CARBONATE	The substance is not PBT / vPvB PBT assessment does not apply
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	The substance is not PBT / vPvB
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	The substance is not PBT / vPvB
ALKYL GLYCIDYL ETHER C12/C14	The substance is not PBT / vPvB
EPOXY RESIN (Type F) (Number average MW <= 700)	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

IMDG

Notes 3082

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not applicable

14.3 Transport hazard class(es) Not regulated

14.4 Packing group III

14.5 Environmental hazards Not applicable

14.6 Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available.

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not regulated
Subsidiary hazard class	
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

IATA

14.1 UN number or ID number	3082
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	III
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet was compiled in accordance with 29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets".
This product is classified in accordance with 28848 dated 11 December 2013 "The Ministry of Environment and Urbanization of the Republic of Turkey Regulation on Classification, labeling and Packaging (CLP) of Dangerous Substances and Preparations".
Please refer to the following regulations or other national measures that are related.

Persistent Organic Pollutants
Not applicable

15.2. Chemical safety assessment

Chemical Safety Report	No chemical safety assessment has been carried out.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

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

Legend

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 01/23/2024

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Part 1
SAFETY DATA SHEET
NITOBOND EP T KOMPONENT B
29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets"

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Safety data sheet number PRD00436

Product Name NITOBOND EP T KOMPONENT B

Pure substance/mixture Mixture

Contains POLYMER OF C-18 UNSATURATED FATTY ACID DIMER WITH TRIETHYLENETETRAMINE & TALL OIL FATTY ACIDS, BARIUM SULPHATE (BARYTES), Calcium Carbonate, BENZYL ALCOHOL, N'-(3AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3-DIAMINE, 3-AMINOPROPYLTRIETHOXYSILANE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Hardener Component of Two-Part Epoxy Adhesion System

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier
Fosroc Yapi Kimyasallari San. Ve Tic. A.S.
Aydinevler mah. Sanayi cad. Demirtas Plaza No:13 Kat:3 34854
Maltepe- Istanbul
TURKIYE
+90 216 463 6776
E-mail address enquiryturkey@fosroc.com

1.4. Emergency telephone number

Emergency telephone number National Poison Information Center (UZEM) - Turkey: 114 Emergency Medical Services - Turkey: 112 +90 262 728 15 07

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification T.C. 28848

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)

Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains POLYMER OF C-18 UNSATURATED FATTY ACID DIMER WITH TRIETHYLENETETRAMINE & TALL OIL FATTY ACIDS, BARIUM SULPHATE (BARYTES), Calcium Carbonate, BENZYL ALCOHOL, N'-(3AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3-DIAMINE, 3-AMINOPROPYLTRIETHOXYSILANE

Signal word
Danger

Hazard statements
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing and eye/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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
P310 - Immediately call a POISON CENTER or doctor
P321 - Specific treatment (see .? on this label)
P391 - Collect spillage

Additional information
This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

2.3. Other hazards

No information available.
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets"

Chemical name	CAS No	Weight-%	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
POLYMER OF C-18 UNSATURATED FATTY ACID DIMER WITH TRIETHYLENETETRAMINE & TALL OIL FATTY ACIDS	68082-29-1	25 - <50%	500-191-5	Aquatic Chronic 2 (H411) Acute Aquatic 2 (H401) Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)
BARIUM SULPHATE (BARYTES)	7727-43-7	25 - <50%	(056-002-00-7) 231-784-4	Acute Tox. 4 (H302) Acute Tox. 4 (H332)
Calcium Carbonate	471-34-1	10 - <25%	207-439-9	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)
BENZYL ALCOHOL	100-51-6	5 - <10%	202-859-9	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)
N'-(3AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3-DIAMINE	10563-29-8	2.5 - <5%	234-148-4	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Eye Dam. 1 (H318) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Acute Aquatic 3 (H402) Chr. Aquatic 3 (H412)
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	1 - <2.5%	213-048-4	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Corr. 1B (H314) Skin Sens. 1 (H317)
CHROMIUM OXIDE GREEN PIGMENT	1308-38-9	0.025 - <0.25%	215-160-9	

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. Get immediate medical attention.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or

clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media CO_2, dry chemical, dry sand, alcohol-resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO_2). Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Refer to protective measures listed in Sections 7 and 8.

6.3. Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of spill to collect runoff water.

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	Turkey	European Union	ACGIH TLV
BARIUM SULPHATE (BARYTES) 7727-43-7	-	-	TWA: 5 mg/m^3 inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica
CHROMIUM OXIDE GREEN PIGMENT	-	TWA: 2 mg/m^3	-

1308-38-9			

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Wear protective nitrile rubber gloves	0.4 mm	
Short term	Wear protective butyl rubber gloves	0.6 mm	

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Recommended filter type: It should comply with European Standard EN 140, Wear a respirator fitted with the following cartridge: Gas filter, type K.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color Various colours
Odor Amine Like.
Odor threshold Not determined

Property	Values	Remarks • Method
pH	No data available	Not established
Melting point / freezing point	No data available	Not determined
Initial boiling point and boiling range	>200 °C	Not determined
Flash point	130 °C	Not applicable
Evaporation rate	No data available.	Not determined
Flammability	No data available.	Not applicable
Flammability Limit in Air		Not applicable
Upper flammability or explosive	No data available	

limits		
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available.	Not determined
Relative vapor density	No data available	Not determined
Relative density	1.15	@ 25 °C
Water solubility	Insoluble in water	None known
Solubility(ies)	No data available.	Not determined
Partition coefficient	No data available.	Not applicable
Autoignition temperature	No data available	Not applicable
Decomposition temperature		Not applicable
Kinematic viscosity	No data available.	Not determined
Dynamic viscosity	No data available.	Not determined
Explosive properties	Not considered to be explosive.	
Oxidizing properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	

9.2. Other information

Softening point	No information available.
Molecular weight	No information available.
VOC content	No information available
Liquid Density	No information available.
Bulk density	No information available.
Particle characteristics	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known hazardous reactivity associated with the product when used as recommended.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Harmful by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

Numerical measures of toxicity

Acute toxicity
The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	1,430.70 mg/kg
ATEmix (dermal)	1,943.40 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	2.02 mg/l
ATEmix (inhalation-vapor)	99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
POLYMER OF C-18 UNSATURATED FATTY ACID DIMER WITH TRIETHYLENETETRAMINE & TALL OIL FATTY ACIDS	-	> 2000 mg/kg (Rat)	-
BARIUM SULPHATE (BARYTES)	= 307000 mg/kg (Rat)	-	-

Calcium Carbonate	= 6450 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 3 mg/L (Rat) 4 h
BENZYL ALCOHOL	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m³ (Rat) 4 h
3-AMINOPROPYLTRIETHOXY SILANE	= 1780 mg/kg (Rat)	= 4290 mg/kg (Rabbit)	> 16 ppm (Rat) 6 h > 5 ppm (Rat) 6 h
CHROMIUM OXIDE GREEN PIGMENT	> 5000 mg/kg (Rat)	-	> 5.41 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
POLYMER OF C-18 UNSATURATED FATTY ACID DIMER WITH	-	LC50: =7.07mg/L (96h, Danio rerio)	-	-

TRIETHYLENETETRAMINE & TALL OIL FATTY ACIDS				
BENZYL ALCOHOL	-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)
N'-(3AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3-DIAMINE	-	LC50: >100mg/L (96h, Danio rerio)	-	-
3-AMINOPROPYLTRIETHOXYSILANE	-	LC50: >934mg/L (96h, Danio rerio)	-	-
CHROMIUM OXIDE GREEN PIGMENT	-	LC50: >10000mg/L (96h, Danio rerio)	-	-

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation The material does not bioaccumulate.

Chemical name	Partition coefficient
BENZYL ALCOHOL	1.05
N'-(3AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3-DIAMINE	-0.56

12.4. Mobility in soil

Mobility in soil Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
POLYMER OF C-18 UNSATURATED FATTY ACID DIMER WITH TRIETHYLENETETRAMINE & TALL OIL FATTY ACIDS	The substance is not PBT / vPvB
BARIUM SULPHATE (BARYTES)	The substance is not PBT / vPvB PBT assessment does not apply
Calcium Carbonate	The substance is not PBT / vPvB PBT assessment does not apply
BENZYL ALCOHOL	The substance is not PBT / vPvB
N'-(3AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3-DIAMINE	The substance is not PBT / vPvB
3-AMINOPROPYLTRIETHOXYSILANE	The substance is not PBT / vPvB
CHROMIUM OXIDE GREEN PIGMENT	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Other adverse effects

Other adverse effects No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available.

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not regulated
Subsidiary hazard class	
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

IATA

14.1 UN number or ID number	2735
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	II
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This Safety Data Sheet was compiled in accordance with 29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets".
This product is classified in accordance with 28848 dated 11 December 2013 "The Ministry of Environment and Urbanization of the Republic of Turkey Regulation on Classification, labeling and Packaging (CLP) of Dangerous Substances and Preparations".
Please refer to the following regulations or other national measures that are related.

29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets"

Persistent Organic Pollutants
Not applicable

15.2. Chemical safety assessment
Chemical Safety Report No chemical safety assessment has been carried out.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H401 - Toxic to aquatic life
H402 - Harmful to aquatic life
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

Legend	**Section 8: Exposure controls/personal protection**		
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

29204 dated 13 December 2014, "The Ministry of Environment and Urbanization of the Republic of Turkey on Hazardous Materials and Mixtures Regulation on Safety Data Sheets"

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet