

## Material Safety Data Sheet

It is prepared pursuant to 1907/2006/EC and Regulation on Information Forms on Harmful Substances and Mixtures (R.G. 13.12.2014-29204) .

Print Date:12.07.2016

Control Date:17.06.2020

SDS Code:GM-CX-005-A

### 1 Identification of the substance/admixture and Company/Distributor

#### 1.1. Identification of the substance/admixture

**Trade Name:** CERMIJOINT EPOSOL PRO -A Component

#### 1.2. Specified or recommended usage of substance/admixture

Epoxy grouting material which is cleanable with cold water.

This SDS has been prepared for A component. Please check TDS document for mixing ratio with B component

#### 1.3. Details of the supplier of the MSDS

**Company Name:** Koramic Yapı Kimyasalları  
Bozüyük OSB 10.Cad No : 3 Bozüyük/BİLECİK  
Phone: +90 228 314 63 00  
Fax: +90 228 314 63 05  
SDS Contact: yasemin.karel@koramic.com.tr

**1.4.Emergency Phone Number:** +90 228 314 63 00(Workdays,in overtime period)

NATIONAL TOXICITY INFORMATION CENTER: 114

### 2.Hazard Identification

#### 2.1.Classification of the substance or admixture

Aquatic Chronic 2 . H 411 Toxic to aquatic life with long-lasting effects.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Skin Irr 2. H 315 Causes skin irritation.  
Eye Irr 2 H 319 Causes serious eye irritation.

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### 2.2.Label Elements



**Signal Word: Warning**

Aquatic Chronic 2. H 411 Toxic to aquatic life with long-lasting effects.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Skin Irr 2. H 315 Causes skin irritation.  
Eye Irr 2 H 319 Causes serious eye irritation.

P273 Avoid release to environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P 352 IF ON SKIN:Wash with plenty of soap and water.  
P305+P 351+P 338: IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses,if present and easy to do. Continue rinsing.  
P 337+P 313: If eye irritation persists: Get medical advice/attention.  
P 333+ P 313: If skin irritation or a rash occurs: Get medical advice/attention

### 2.3. Other Hazards

None known.

## 3 Information of Composition/Ingredients

### 3.2. Admixture

Substance	CAS Number	Concentration(%)	Hazard Statements
Bisphenol A Reaction Product	25085-99-8	%10-30	H 411 Toxic to aquatic life with long-lasting effects. H317 May cause an allergic skin reaction. H 315 Causes skin irritation. H 319 Causes serious eye irritation.

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Aliphatic Glycidyl Ether	68609-97-2	0-3	H 315 Causes skin irritation. H 317 May cause an allergic skin reaction.
Titanium Dioxide	13463-67-7	5-10	-
Xylene	1330-20-7	0,1-0,4	H226 Flammable liquid and vapour May cause an allergic skin reaction. H332 Harmful if inhaled H312 Harmful in contact with skin H315 Causes skin irritation

Substance	CAS Number	Concentration(%)	Hazard Statements
Ethylbenzene	100-41-4	0-0,2	H302 Harmful if swallowed H319 Causes serious eye irritation
Solvent naphtha, petroleum, light aromatic	64742-95-6	0-0,1	H350 May cause cancer H340 May cause genetic defects H304 May be fatal if swallowed and enters airways
Fatty acids,C-18 unsatd.,trimers compds. With oleylamine	147900-93-4	0-0,1	H372 Causes damage to organs through prolonged or repeated exposure H411: Toxic to aquatic life with long-lasting effects H317 May cause an allergic skin reaction.
Fatty acid,tall-oil,compds. With oleylamine	85711-55-3	0-0,1	H319 Causes serious eye irritation
Distillates (petroleum), hydrotreated light	64742-47-8	0-0,7	H 304 May be fatal if swallowed and enters airways
Silicon Dioxide	7631-86-9	0-1	-
Quartz	-	10-20	-

### 4 First Aid Measures

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SDS Code:GM-CX-005-A

### 4.1. Description of first aid measures

**General** :If any suspicion on any causes or detected disease symptoms,get medical advice/attention. Do not given anything to unconscious person.

**After Skin Contact** :Remove contaminated clothing immediately and wash affected skin with soap and water.Wash contaminated clothing before reuse.If irritation develops and persists,get medical attention.

**After Eye Contact** :Rinse eyes with water at least 10 minutes while eyelids open.Remove contact lenses.Get medical attention if eye irritation develops or persists.

**After Ingestion** : Rinse the mouth. Provide comfortable condition for injury person.Do not induce vomiting. Seek the medical advice.

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

Causes irritation to eyes and skin. May cause sensitization by skin contact.

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

Treat symptomatically.

## 5 Fire-fighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** : Extinguish preferably with foam, carbon dioxide or dry chemical.

**Unsuitable Extinguishing Media** : Water jet.

### 5.2. Special hazards arising from the substance or admixture

May decompose in a fire giving off toxic fumes. Epoxy resins release phenolics, carbon monoxide and water.

### 5.3. Advice for firefighters.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.Avoid run off the waterways and sewers.

## 6 Accidental release measures.

### 6.1. Personal precautions, protective equipment and emergency procedures.

Ensure adequate ventilation. Do not breathe fumes/vapour from heated product.  
Wear protective gloves/protective clothing/eye protection/face protection.

### 6.2. Environmental precautions.

Do not allow to enter drains, sewers or watercourses.

### 6.3. Methods and material for containment and cleaning up.

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Contain spillages. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Dispose of this material and its container as hazardous waste. Residual resin may be removed using steam or hot soapy water.

### 6.4 Reference to other sections.

See section: 8,13

## 7 Handling and storage

### 7.1. Precautions for safe handling

Do not breathe fumes/vapour from heated product. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Avoid contact with skin, eyes or clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product

### 7.2. Conditions for safe storage, including any incompatibilities.

Keep away from naked flames and hot surfaces.

#### Storage:

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

**7.3. Specific end use(s)** :PC14 Metal surface treatment products, including galvanic and electroplating products.

## 8 Exposure controls/personal protection

### 8.1.Control Parameters.

Not available limit value(s).

### 8.2. Exposure controls

#### 8.2.1. Suitable engineering control methods

Ensure adequate ventilation.

#### 8.2.2. Personal Protective Equipment

**Safety equipments** : Mask and safety goggles for resisting to chemicals.

**Air condition**: Provide fresh air for every time.

**Protection of Respiratory System** : Normally no personal respiratory protection is necessary. In case of inadequate ventilation wear respiratory protection.

**Protection of Hands**: Wear impervious gloves. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

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**Protection of Eyes:** Wear goggles giving complete protection to eyes to protect against liquid splashes.

### 9 Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**Appearance** : Clear syrup  
**Odor** : Slightly sweet  
**Physical State** : Liquid  
**Vapor Press** : N.D.A.  
**Specific Gravity** : 1.10  
**pH** :N.D.A.  
**Boiling Point** :N.D.A.  
**Melt Point** : N/A  
**Solubility in H<sub>2</sub>O** :Slightly

### 10 Stability and reactivity.

**10.1. Reactivity** : Stable under normal conditions.

**10.2. Chemical stability** : Stable under normal conditions.

**10.3. Possibility of hazardous reactions.:** Phenolics, Carbon monoxide and Water.

**10.4. Conditions to be avoided.** Temperature > 300°C. Decomposes at temperatures above (°C): 350.

Generation of gas during decomposition can cause pressure in closed systems.

Pressure buildup can be rapid.

**10.5 Substances to be avoided:** Alkalis (strong bases). Acids. Amines and Oxidizing agents.

**10.6. The products of after decompositions :**

Will not occur by itself, but masses of more than 500 grams of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

### 11 Toxicological information

Informations are based on similar toxicologic products and admixture itself.

#### 11.1 Information on toxicological effects.

##### Acute toxicity

Ingestion	Not classified.
Inhalation	Not classified.
Skin Contact	Skin Irrit. 2; Causes skin irritation.
Eye Contact	Eye Irrit. 2; Causes serious eye

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SDS Code:GM-CX-005-A

Irritation	irritation.
Corrosivity	Not classified.
Sensitisation	Not classified.
	Skin Sens. 1; May cause an allergic skin reaction.
Repeated dose toxicity	Not classified.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	No data.

### Acute Toxicity values for components

<b>68609-97-2- Aliphatic Glycidyl Ether</b>
LD50 Oral - rat - > 2.000 mg/kg
<b>13463-67-7-Titanium Dioxide</b>
LD50 Oral -rat - > 5.000 mg/kg
LC50 Inhalation - rat - 4 h - > 6,82 mg/l
<b>1330-20-7-Xylene</b>
LD50 Oral - rat - 3.523 mg/kg
LC50 Inhalation-rat - 4 h - 5000 ppm
LD50 Dermal - Rabbit - 12.126 mg/kg
<b>100-41-4 -Ethylbenzene</b>
LD50 Oral-rat- 3.500 mg/kg
LD50 Dermal -rabbit - 15.433 mg/kg
<b>64742-95-6- Solvent naphtha, petroleum, light aromatic</b>
LD50 oral-rat >14000 mg/kg (Sprague-Dawley)
LD50 dermal-rabbit >2000 mg/kg
LC50 Inhalation-rat (mg/l) – 4h - 6,000 - 10,000 mg/m3 (C9 aromatic naphtha)
<b>147900-93-4- Fatty acids,C-18 unsatd.,trimers compds. With oleylamine</b>
LD50 Oral (rat): > 1,570 mg/kg
<b>85711-55-3- Fatty acid,tall-oil,compds. With oleylamine</b>
LD50 Oral (rat): > 2,000 mg/kg
<b>64742-47-8- Distillates (petroleum), hydrotreated light</b>
LD50 Oral - Rabbit - 2.835 mg/kg
<b>7631-86-9 Silicone dioxide,chemically prepared</b>
LD 50,oral>5000 mg/kg (rat)

### 11.2.Other Information:

NTP: Not Listed

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Control Date:17.06.2020

SDS Code:GM-CX-005-A

IARC Monographs: Not Listed

OSHA Regulated: Not Listed

### 12 Ecological Informations

- |   |  |
|---|--|
| 12.1. Toxicity                          | No data.   |
| 12.2. Persistence and degradability     | Part of the components are poorly biodegradable.       |
| 12.3. Bioaccumulative potential         | The product has low potential for bioaccumulation.     |
| 12.4. Mobility in soil                  | The product is predicted to have low mobility in soil. |
| 12.5. Results of PBT and vPBT assesment | Not classified as PBT or vPvB.                         |
| 12.6. Other adverse effects             | None known.  |

### 13 . Disposal considerations

**13.1.Waste treatment methods:**This material and its container must be disposed of as hazardous waste. Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation.

**13.2.Additional Information:**Dispose of contents in accordance with local, state or national legislation.

### 14 . Transport information.

#### DOT

UN number: UN 2810

UN proper shipping name: Toxic, liquids, organic, n.o.s.

Transport hazard class(es)

Class(es): 6.1 Label(s): 6.1

Packing group: III

Marine Pollutant: No

#### IMDG

UN number: UN 2810

UN proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

Transport hazard class(es)

Class(es): 6.1 Label(s): 6.1

EmS No.: F-A, S-A

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Control Date:17.06.2020

SDS Code:GM-CX-005-A

Packing group: III  
Marine Pollutant: No

### IATA

UN number: UN 2810  
Proper Shipping Name: Toxic liquid, organic, n.o.s.  
Transport hazard class(es):  
Class(es): 6.1 Label(s): 6.1  
Marine Pollutant: No  
Packing group: III

## 15 Regulatory information.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or admixture

· **According to Regulation (EC) Number 1272/2008 labeling.**

Product labelled and classified according to SEA regulation.

· **Hazard Pictograms:**

GHS07,GHS 09

· **Signal Word:**Warning

· **Determinant component(s) of dangers for labeling:**

Bisphenol A Reaction Product

Aliphatic Glycidyl Ether

· **Hazard statements:**

H 411 Toxic to aquatic life with long-lasting effects.

H317 May cause an allergic skin reaction.

H 315 Causes skin irritation.

H 319 Causes serious eye irritation.

## 16 Other Information

The information contained in this Safety Data Sheet is provided only for the latest information and findings. However, neither do they constitute a warranty nor do they constitute a contractual legal relationship. The information provided is for the safe storage, handling, transport and disposal of the product mentioned in this safety data sheet. This information is not used for other products.

### 16.1. Safety Data Sheet Prepared by:

Prepared by: Yasemin KAREL

Certificate no: NBC/01.146.05

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Certificate validity date : 17.01.2021

### 16.2. Relevant Harmfulness and Precautionary Statements

H 411 Toxic to aquatic life with long-lasting effects.

H317 May cause an allergic skin reaction.

H 315 Causes skin irritation.

H 319 Causes serious eye irritation.

P273 Avoid release to environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P 352 IF ON SKIN:Wash with plenty of soap and water.

P305+P 351+P 338: IF IN EYES: Rinse caustiously with water for several minutes.Remove contact lenses,if present and easy to do. Continue rinsing.

P 337+P 313: If eye irritation persists: Get medical advice/attention.

P 333+ P 313: If skin irritation or a rash occurs: Get medical advice/attention

### 16.3. Abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienist
<b>ADR</b>	European Agreement on Carriage of Dangerous Goods by Road
<b>CLP</b>	Regulation on the Classification, Labeling and Packing of Chemicals
<b>DSD</b>	Dangerous Goods Regulation (EC)
<b>IARC</b>	International Agency for Cancer Research
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Authority
<b>IDLHs</b>	Dangerous for Life or Health Concentrations
<b>IMDG</b>	International Maritime Rules for Dangerous Goods
<b>mg/m<sup>3</sup></b>	The amount in milligrams of the substance found in 1 m <sup>3</sup> of air at 20 ° C and 101.3 KPa. (760 mm mercury pressure).
<b>NIOSH</b>	National Institute for Occupational Health and Safety
<b>NTP</b>	National Toxicology Program (USA)
<b>OSHA</b>	Occupational Safety and Health Administration (USA)
<b>PEL</b>	Permissible Exposure Limit
<b>ppm</b>	Amount in milliliters of 1 m <sup>3</sup> of airborne material (ml / m <sup>3</sup> )

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SDS Code:GM-CX-005-A

**RID**

International Regulations for the Transport of  
Dangerous Goods by Rail

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Print Date:01.07.2016  
GBF Kodu: GM-CX-005-B

Control Date:17.06.2020

### 1 Identification of the substance/admixture and Company/Distributor

#### 1.1. Identification of the substance/admixture

**Trade Name:** CERMIJOINT EPOSOL PRO -B Component

#### 1.2. Specified or recommended usage of substance/admixture

Epoxy Grouting Material

#### 1.3. Details of the supplier of the MSDS

**Company Name:** Koramic Yapı Kimyasalları  
Bozüyük OSB 10.Cad No : 3 Bozüyük/BİLECİK  
Phone: +90 228 314 63 00  
Fax: +90 228 314 63 05  
Contact: yasemin.karel@koramic.com.tr

**1.4.Emergency Phone Number:** +90 228 314 63 00(Workdays,in overtime period)

### 2.Hazard Identification

#### 2.1.Classification of the substance or admixture

Skin dam. 2. H315 Causes skin damage.  
Eye dam. 2 H319 Causes serious eye damage.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Aquatic Chronic 3 H 412 Harmful to aquatic life with long lasting effects

#### 2.2.Label Elements



GHS 07



GHS 09

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Print Date:01.07.2016  
GBF Kodu: GM-CX-005-B

Control Date:17.06.2020

### Signal Word: Warning

Skin dam 2            H315 Causes skin irritation  
Eye dam. 2            H319 Causes serious eye irritation  
Skin Sens. 1           H317 May cause an allergic skin reaction.  
Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects

P 261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

P 337+ P 313 If eye irritation persists get medical advice/attention.

P 302+P 352 IF ON SKIN: Wash with plenty of water/

P 305+P351+P 338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

### 2.3. Other Hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Information of Composition/Ingredients

### 3.2. Admixture

Substance	CAS Number	Concentration(%)	Hazard Statements
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine	68071-65-8	%4-10	H315 Causes skin irritation H319 Causes serious eye irritation H317 May cause an allergic skin reaction.
Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine	68082-29-1	4-10	H315 Causes skin irritation H319 Causes serious eye irritation H317 May cause an allergic skin reaction.
Silicon Dioxide	736-86-9	0,1-1	-

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GBF Kodu: GM-CX-005-B

Control Date:17.06.2020

Quartz	-	10-20	-
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### 4 First Aid Measures

**General** :If any suspicion on any causes or detected disease symptoms,get medical advice/attention. Do not given anything to unconscious person.

**After Skin contact** : Rinse skin with water and soap.If it continues, get medical advice/attention.

**After Eye Contact** : Rinse eyes with water at least 10 minutes while eyelids open.Do not use solvent or thinner.

**After Ingestion** : Seek the medical advice. Provide comfortable condition for injury person.Do not induce vomiting.

### 5 Fire-fighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Equipments:** Alcohol resistant foam,CO<sub>2</sub>,powder ,water spray.

**Unsuitable Extinguishing Equipments** : Water jet

#### 5.2. Special hazards arising from the substance or admixture

The fire produce dark black and oil fume. Decomposition of production may be affected the health.It may be required suitable breathing equipment.

#### 5.3. Advice for firefighters.

The fire produce dark black and oil fume.

Decomposition of production may be affected the health.It may be required suitable breathing equipment

### 6 Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Keep from the fire material and provide fresh air . Avoid breathing the steams.

#### 6.2. Environmental precautions.

Avoid dumping to drainage,groundwater and water.

#### 6.3. Methods and material for containment and cleaning up.

Less quantity of dumping materials may be taken by absorbent materials and full in the box..

#### 6.4 Reference to other sections.

Obey 7. And 8. rules which tells safety advices.

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Control Date:17.06.2020

### 7 Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact eye and skin. Must not breath spray and steam.  
The pressure is not used when the box deplete.

#### 7.2. Conditions for safe storage, including any incompatibilities.

##### Storage:

##### Specialites of storage and boxes.

Store dry and fresh condition by reading informations of product.Store indirect sunlight.  
Store original package or box have original package property.  
Opened boxes are closed carefully and avoid pouring.

##### Warnings about storage.

Avoid store incompatible materials together.  
Avoid from igniter materials.

#### 7.3. Specific end use(s)

Information not available.

### 8 Exposure controls/personal protection

#### 8.1.Control Parameters.

Not avaliabe limit value(s).

#### 8.2. Exposure controls

##### 8.2.1. Suitable engineering control methods

Provide fresh air for everytime.

##### 8.2.2. Personal Protective Equipment

**Safety equipments :** Mask and safety goggles for resistancing to chemicals.

**Air condition:** Provide fresh air for everytime.

**Protection of Respiratory System :** Use suitable protection in applying. May be used air-fed respirator.

**Protection of Hands:** If contact is long-term , Must be used nitrile and neoplan gloves. Before contacting , Must be used protection cream.

**Protection of Eyes :** Must be used protection goggles for avoiding the liquid leaping.

**Protection of Skin and Body :** Must be worn antiseptic gloves which made by natural fibers and high temperature resistant synthetic fibers. The body should be washed in contact.

### 9 Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

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GBF Kodu: GM-CX-005-B

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**Appearance** : Liquid  
**Colour** : RAL colours  
**Flash point.** : 180 °C DIN 53213  
**Initial boiling point** : >200 °C  
**Vapour pressure** : < 0,09774 mmHg (21 °C)  
**Specific Density** : 20 °C'de 1,8 gr/cm<sup>3</sup> DIN 53217  
**Water Soluable** : Çözünmez

### 10 Stability and reactivity.

**10.1. Reactivity** : There are no particular risks of reaction with other substances in normal conditions of use.

**10.2. Chemical stability:** It is stable in storage conditions.

**10.3. Possibility of hazardous reactions.:**No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to be avoided.** None.

**10.5 Substances to be avoided:** Strong oxidizing materials , acids and bases.

**10.6. The products of after decompositions :** After Combustion, toxic substances such as carbon monoxide and carbon dioxide may be appeared.

### 11 Toxicological information

Informations are based on similar toxicologic products and admixture itself.

#### 11.1 Information on toxicological effects.

#### LD/LC50 - values (toksikological experiments values) for classification

**68071-65-8- Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine**

Oral LD50 >2000 mg/kg (rat)

**68082-29-1 Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine**

Oral LD50 >16000 mg/kg (rat)

**7631-86-9 Silicone dioxide,chemically prepared**

Oral LD50 >5000 mg/kg (rat) (OECD 401)

**14808-60-7 Quartz(Silicone dioxide)**

Oral LD50 =3160 mg/kg (rat)

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### Skin irritation/sensation

Causes to skin irritation.

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory tract or skin sensitivity

Causes allergic skin reactions.

## 12 Ecological Informations

- |  |   |
|--|---|
| <b>12.1. Toxicity</b>                      | No appropriate data                             |
| <b>12.2. Persistence and degradability</b> | Part of components' biodegradabilities are low. |
| <b>12.3. Bioaccumulative potential</b>     | Bioaccumulative of product is low.              |
| <b>12.4. Mobility in soil</b>              | No appropriate data.                            |

68071-65-8 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine and 68082-29-1 Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine components' ecologic effects:

· Note: Harmful for fishes.

Other ecologic warnings:

Classification of harmful for water: 2 –It has been threat for water.

\*Take preventions for leaking into ground water,water and sewage.

\*It should not reach in to pre-dilution impoundment without dilution or neutralisation process.

\*A bit of leakage could have been spawn threat for tap water.

\*It is poisonous for fishes and planktons in slack or running water.

\*It is poisonous for aquatic creatures.

- |   |                                 |
|---|---------------------------------|
| <b>12.5. Results of PBT and assessments</b> | It isn't listed as PBT or vPvB. |
| <b>12.6. Other adverse effects</b>          | No appropriate data available.  |

## 13 . Disposal considerations

**Disposal:** Sewage , soil or dispose of any water supply. All disposal methods available in their area and must comply with city laws and regulations . These laws and regulations vary from region to region. and

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Print Date:01.07.2016  
GBF Kodu: GM-CX-005-B

Control Date:17.06.2020

only producer of the waste and the characteristics of the waste is responsible for compliance with existing laws.

### 14 . Transport information.

#### 14.1 UN number

· ADR, ADN, IMDG, IATA out of date.

#### 14.2 Suitable UN transportation name:

· ADR, ADN, IMDG, IATA out of date.

#### 14.3Transportation hazardous classification(s):

· ADR, ADN, IMDG, IATA out of date..

#### 14.4 Group of packaging:

· ADR, IMDG, IATA out of date.

#### 14.5 Environmental Damage:

Marine pollutant: None

14.6 Special precautions for user(s) :Non applicable.

14.7 MARPOL 73/78 appendix II and bulk transportation according to IBC code :Not applicable.

### 15 Regulatory information.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or admixture

· According to Regulation (EC) Number 1272/2008 labeling.

Product labelled and classified according to SEA regulation.

· **Hazard Pictograms:**

GHS07, GHS09

·**Signal Word:**Warning

· **Sign of dangers for labeling:**

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids, tetraethylenepentamine and triethylenetetramine

Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

· **Hazard statements:**

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects

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Print Date:01.07.2016  
GBF Kodu: GM-CX-005-B

Control Date:17.06.2020

### 16 Other Information

Product safety data sheet and the information is provided in accordance with the most recent information and findings. Products of our control and direct and any conditions arising from the use of other purposes without our knowledge and / or does not bear responsibility for indirect losses and damages.

#### 16.1. Safety Data Sheet Prepared by:

Prepared by: Yasemin KAREL  
Certificate no: NBC/01.146.05  
Certificate validity date : 17.01.2021

#### 16.2. Relevant Harmfulness and Precautionary Statements

#### 16.3. Abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienist
<b>ADR</b>	European Agreement on Carriage of Dangerous Goods by Road
<b>CLP</b>	Regulation on the Classification, Labeling and Packing of Chemicals
<b>DSD</b>	Dangerous Goods Regulation (EC)
<b>IARC</b>	International Agency for Cancer Research
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Authority
<b>IDLHs</b>	Dangerous for Life or Health Concentrations
<b>IMDG</b>	International Maritime Rules for Dangerous Goods
<b>mg/m<sup>3</sup></b>	The amount in milligrams of the substance found in 1 m <sup>3</sup> of air at 20 ° C and 101.3 KPa. (760 mm mercury pressure).
<b>NIOSH</b>	National Institute for Occupational Health and Safety
<b>NTP</b>	National Toxicology Program (USA)
<b>OSHA</b>	Occupational Safety and Health Administration (USA)
<b>PEL</b>	Permissible Exposure Limit
<b>ppm</b>	Amount in milliliters of 1 m <sup>3</sup> of airborne material (ml / m <sup>3</sup> )
<b>RID</b>	International Regulations for the Transport of Dangerous Goods by Rail

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<b>SEA</b>	Regulation (TR) on Classification, Labeling and Packing of the Articles and Mixtures No. 28848 (Muk.) Dated 11 December 2013
<b>STEL</b>	Unless otherwise specified, the exposure upper limit value that should not be exceeded for a period of 15 minutes.
<b>TWA</b>	Time-weighted average measured or calculated for the 8-hour reference time