


Safety Data Sheet (SDS)

# Orange Engineering Gasket Maker

**AER1606**

| | |
|---|---|
| **Product name on SDS** | ORANGE BOLT STABILIZER |
| **Regulation** | REACH Annex II — Regulation (EU) 2020/878 · CLP (EC) 1272/2008 |
| **Revision / date** | Rev. 01 · 05.2023 |
| **Number of pages** | 14 |
| **Supplier** | Setkim Kimya İnş. Taah. Paz. San. Tic. Ltd. Şti. · Divortex / DVX |
| **Emergency** | +90 216 669 03 53 |
| **UFI** | HAD2-U951-W00R-SHF0 |

This cover page identifies the product. The following pages are the official Safety Data Sheet prepared in accordance with applicable regulations and are presented unchanged.

MATERIAL SAFETY DATA SHEET

REPUBLIC OF TURKEY This document has been prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Preparations which was published in Official Gazette dated 13 December 2014 and numbered 29204, by the Ministry of Environment and Urbanization.

# ORANGE BOLT STABILIZER

Date of Issue: May 2023

Revision No: 01 FORM NO: EF:55

## 1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND COMPANY / DEALER

**1.1 Identification of the Substance/Mixture:** Orange Bolt Stabilizer.

**1.2 Use of the Substance/Mixture:** Orange Bolt Stabilizer.

**The uses advised against, if any:** Do not use in cleaning hands, face, body and food.

**1.3 Company Identification**

| | |
|---|---|
| Manufacturer | SETKİM KİMYA İnş. Tah. Paz. San. Ve Tic. LTD. ŞTİ. |
| Address | İstanbul Deri Organize Sanayi Bölgesi V1 Nolu Parsel Fikse Cad. No:20 Tuzla/İSTANBUL |
| Tel. | +90 216 669 03 53 |
| Fax. | +90 216 669 03 50 |
| Contact Person | info@divortex.com.tr |

**1.4 Emergency Telephone Numbers. No.:** 114 UZEM



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## 2. HAZARDS IDENTIFICATION

**2.1 Classification of substances and mixtures**

**Physical Hazards**

Not applicable

**Health Hazards**

Skin Sens.H317

Eye Irrit. 2 H319

**Environmental Hazards**

Not applicable

**2.2.Label Elements:**

**Hazard Pictograms;**



**Signal Word:** Danger

**Hazard Statements (H):**

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

**Precautionary Statements (P):**

**Precaution;**

P261 Avoid breathing dust/fume/gas/mist/vapours/ spray.

P264 Wash water thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

**Handling;**

P302+P352 IF ON SKIN: Wash with plenty of water/...

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

P363 Wash contaminated clothing before reuse.

**2.3. Other Harms**



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**PBT and vPvB assessment:** Does not contain PBT and vPvB substances.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Product Name | EC No | Cas No | Concentration % | Classification |
|---|---|---|---|---|
| Methacrylic acid, monoester with propane-1,2-diol | 248-666-3 | 27813-02-01 | 90-100 | Skin Sens.H317<br>Eye Irrit. 2 H319 |
| Cumene | 202-704-5 | 98-82-8 | 0,1-0,5 | Flam. Liq. 3 H226<br>Asp Tox. 1 H304<br>STOT SE 1 H335<br>Chronic Tox. 2 H411 |
| Cumene Hydroperoxide | 201-254-7 | 80-15-9 | 1-3 | Organic Per. H242<br>Acute Tox. 4 H302 (oral)<br>Acute Tox. 4 H312 (dermal)<br>Skin Irrit. 1A H314<br>Acute Tox. 3 H331 (inh.)<br>Organ Tox. 2 H373<br>Chronic Tox. 2 H411 |

For full text of the H statements see Chapter 16.

## 4. FIRST AID MEASURES

**General Information: Get medical assistance, if any discomfort persists.**

**4.1 Inhalation:** Take the patient from the danger zone. Make sure the person get fresh air. In case of loss of consciousness, make the person get side-lying position and call a physician.

**4.2 Skin Contact:** Take off all contaminated clothing. Rinse thoroughly with plenty of water. Can cause irritation, consult a physician.

**4.3 Eye Contact:** Remove contact lenses. Raise your eyelids and flush with plenty of water immediately. Consult a doctor if irritation persists.

**4.4 Ingestion**: Rinse your mouth thoroughly with water. Do not induce vomiting. Give plenty of water to drink. Consult a doctor immediately. In case of vomiting, the head should be kept below.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** $CO_2$, Dry Chemical Powder (DCP), Water spray, Alcohol-resistant foam.

**Unsuitable Extinguishing Media:** No data.

**Chemicals with Explosion-Risk:** No risk of explosion.

**Advice for Firefighters: No data.**

**Special protective equipment:** In case of fire, use respiration support equipment that is independent from weather and chemical surrounding.

**Further Information:** In the case of burning, the gasses of carbon dioxide, carbon monoxide and sulphur can be emitted.



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| Fire Type | A | B | C | D | E |
|---|---|---|---|---|---|
| **Type** | Solid | Liquid | Gas | Metals | Electric |
| **Inflammable Material** | Wood, Wooden Material, Fabric, Paper | Fuel, Oil, Dye, Thinner | Methane, Propane, LPG | Magnesium, Sodium, Aluminum | Electric |
| **Extinguishing Method** | Cooling, Inhibit Burning | Inhibiting, Smothering, Cooling | Inhibiting, | Cooling, Smothering | Cut electricity at first |
| **Extinguishing Media** | Water, Extinguisher with ABC powder and foam | Extinguisher with ABC powder, BC powder, Halon gas, $CO_2$, and foam | Extinguisher with ABC powder, BC powder, Halon gas, and $CO_2$ | Extinguisher with only D powder | Extinguisher with ABC powder, B powder, and Halocarbon gas |

In general;

1. Dry powder fire extinguisher, for '' all kinds of fire''.
2. Fire extinguishing foam for ''solid and liquid fires''.
3. Aqueous fire extinguisher for ''solid fires''.
4. Halocarbon-based fire extinguisher for ''fires of electric and electronic media''.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment See Section 8. Avoid contact with eyes. Pay attention to the danger of slipping.**

**6.2 Environmental Precautions: Avoid releasing to the environment. Prevent further leakage and spillage if it is safe. Prevent the leakage to the spaces in which accumulation can be dangerous such as sewers, basements, and holes. In case of accidental flow into the sewer, notify the authorities.**

**6.3 Methods and material for containment and cleaning up:** Use material with absorbent agents (e.g. universal binding agent, sand, siliceous soil). Keep the wastes in closed containers suitable for this substance. The collected material should be kept in a suitable container, it should be recycled or disposed off in accordance with the national or regional regulation.

**6.3.1 Recommendations to Keep Spillage Under Control:**

Take protective precautions against the risk of slipping.

**6.3.2. Recommendations to Clean Spillage:** In case of spillage, take appropriate measures immediately and clean. In case of spillage in liquid form collect the spillage by using dry sand, soil, silica gel or binding substance and put it into waste container carefully. Clean the remnants by diluting. Put the contaminated material into a suitable container and dispose of it in accordance with Article 13.

**6.3.4 Other information:**

Comply with local regulations. See Article 7 for information on safe handling. See Article 8 for information on safe handling. See Article 13 for information on safe handling. In case of any disorder, apply first-aid measures at Article 4.

## 7. HANDLING AND STORAGE



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**7.1 Precautions for Safe Handling**

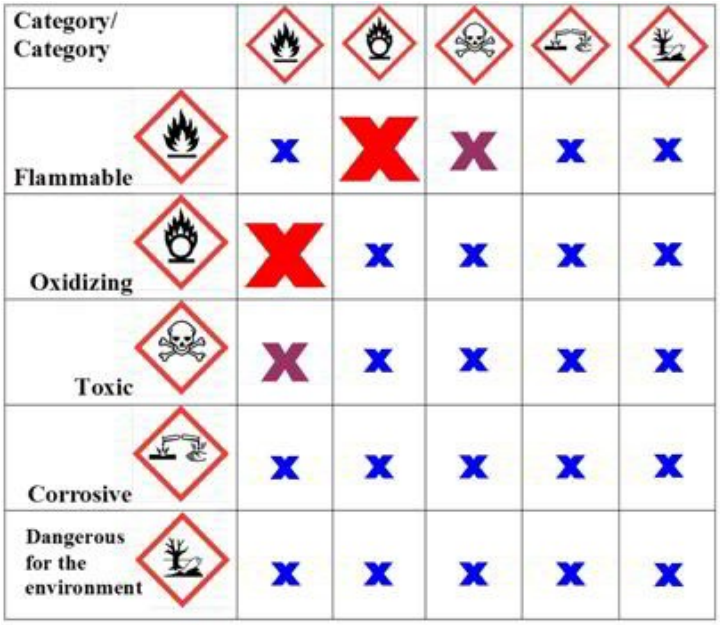
In order to protect health, safety and the environment, work procedures and organizational measures should be taken in workplace and at works with dangerous chemicals in accordance with Article 7 of the Regulations on Health and Safety Measures When Working with Chemicals, published in the Official Gazette dated 12.8.2013 and numbered 28733 and Article 7 of the Regulation on Health and Safety Precautions in Carcinogenic or Mutagenic Activities published in the Official Gazette dated 6.8.2013 and numbered 28730 and care should be taken to ensure planning of work procedures and taking organizational measures in the workplace.
Ensure handling compliant with good practices of industrial hygiene and safe handling procedures.
Comply with industrial hygiene standards in order to prevent ingestion, contact with eyes and skin during handling. Widespread common rules should be obeyed while working with chemicals. Make sure that there is a good ventilation at work place. Considering the occupational exposure limits, check the quantities in the atmosphere of the work place. This product is not a flammable substance but must be kept under control in case of fire. See Article 7 for information on safe handling. See Article 8 for information on Personal Protective Equipment. See Article 13 for information on disposal. Always obey general hygiene rules for chemicals. Keep all flammable sources away. Avoid skin and eye contact. Do not ingest the product. Do not eat, drink, or smoke at handling area. Avoid from any ignition danger. Avoid from exposure to high temperature during the process.

**7.1.1 Recommendations for General Handling:**
**7.1.1.1 Warnings for Safe Handling**
Use protective clothing and avoid its contact with the clothing. In order to ensure safe handling of the substance or mixture, take necessary precautions for preventing or controlling the occurrence of a fire. Use personal protective equipment. Make sure that the place is well ventilated. Avoid contact with eyes, skin, and body. Keep away from the sources that may create fire. Keep fire-fighting equipment ready.
**7.1.1.2 Warnings on Incompatibilities of the Substances or Mixtures**
Take necessary precautions to prevent handling incompatible substances or mixtures. In case of oxidization or hot surface, keep away from the situations that may create flame.
**7.1.1.3 Environmental Warnings**
Prevent it from contaminating sewers/surface water/ground water. In case of contaminating waters or drains inform the official authorities.
**7.1.1.4 Additional warnings:**
Take necessary precautions to avoid damaging of the original packaging/ storage media.
**7.1.2. Recommendations on General Occupational Hygiene:**
Comply with industrial hygiene standards in order to prevent ingestion, contact with eyes and skin during handling. Wash your hands with plenty of water and soap after work. Make sure that there is a good ventilation at work place. Smoking, eating, and drinking should be prohibited in the application area. Contaminated clothing and protective equipment should be taken off before entering in the mess hall.

**7.2. Conditions for Safe Storage, Including Any Incompatibilities**
Handling precautions: Ensure adequate local ventilation in the storage areas. Keep away from food, beverages and animal feed. Keep it at well ventilated, dry and cool spaces which are away from heat, open flame and daylight. Keep the packaging closed. Do not eat, drink, or smoke at storage area. Keep all sources of ignition away. Do not store it with oxidizing agents, acids, alkalis and materials that cause dangerous reactions. Recommended storage temperature is between 0°C and 35°C. Do not exceed the expiration date specified on the packaging.

**7.3. Specific End Use(s)**
None at the moment.


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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**8.1 Control Parameters**
The mixtures have not TWA and STEL values.

**8.1.1.1** Occupational Exposure Limit Values in accordance with the Regulation on Health and Safety Measures When Working with Chemicals (Official Gazette-12.08.2013-28733): No Data
**8.1.1.2** Occupational Exposure Limit Values in accordance with the Regulation on Health and Safety Precautions in Carcinogenic or Mutagenic Activities (Official Gazette-06.08.2013-28730): No Data
**8.1.1.3** Other Occupational Exposure Limit Values: No Data
**8.1.1.4** Biological limit values in accordance with the Regulation on Health and Safety Measures When Working with Chemicals (Official Gazette-12.08.2013-28733): No Data
**8.1.1.5** Other biological limit values: No Data
**8.1.2** At least information on the monitoring procedures currently recommended for the substance which is the most similar to the substance in question: No Data
**8.1.3** The applicable occupational exposure limit values and/or biological limit values in case of generating air pollutants when the substance or mixture is used as intended: No Data
**8.1.4 Sufficient information to provide effective management of risk and special control band in case of using** control band approach to decide risk management measures for specific uses

**Methacrylic acid, monoester with propane-1,2-diol;**

| Use Area | Exercise / environmental section | Effects on health | Derived no-effect level (DNEL) | Value | Unit | Description |
|---|---|---|---|---|---|---|
| Workers/employees | Human-inhalation | Long-term systematic effects | DNEL | 14,7 | $mg/m^3$ | Repeated dose toxicity |
| Workers/employees | Human-dermal | Long-term systematic effects | DNEL | 4,2 | mg/kg | Repeated dose toxicity |
| Consumer | Human- | Long-term | DNEL | 4,35 | $mg/m^3$ | Repeated dose |


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| | | | | | | |
|---|---|---|---|---|---|---|
| | inhalation | systematic effects | | | | toxicity |
| Consumer | Human-dermal | Long-term systematic effects | DNEL | 2,5 | mg/kg | Repeated dose toxicity |
| Consumer | Human-oral | Long-term systematic effects | DNEL | 2,5 | mg/kg | Repeated dose toxicity |

**Cumene;**

| Use Area | Exercise / environmental section | Effects on health | Derived no-effect level (DNEL) | Value | Unit | Description |
|---|---|---|---|---|---|---|
| Workers/employees | Human-inhalation | Long-term systematic effects | DNEL | 100 | $mg/m^3$ | |
| Workers/employees | Human-dermal | Long-term systematic effects | DNEL | 15,4 | mg/kg | Repeated dose toxicity |
| Consumer | Human-inhalation | Long-term systematic effects | DNEL | 16,6 | $mg/m^3$ | Repeated dose toxicity |
| Consumer | Human-dermal | Long-term systematic effects | DNEL | 1,2 | mg/kg | Repeated dose toxicity |
| Consumer | Human-oral | Long-term systematic effects | DNEL | 5 | mg/kg | Repeated dose toxicity |

**Cumene Hydroperoxide;**

| Use Area | Exercise / environmental section | Effects on health | Derived no-effect level (DNEL) | Value | Unit | Description |
|---|---|---|---|---|---|---|
| Workers/employees | Human-inhalation | Long-term systematic effects | DNEL | 6 | $mg/m^3$ | Repeated dose toxicity |
| Workers/employees | Human-dermal | Long-term systematic effects | DNEL | | | |
| Consumer | Human-inhalation | Long-term systematic effects | DNEL | | | |
| Consumer | Human-dermal | Long-term systematic effects | DNEL | | | |
| Consumer | Human-oral | Long-term systematic effects | DNEL | | | |



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Protection Equipment:





**Ventilation:** Provide proper aspiration / ventilation at the workplace. A suitable respiratory protection equipment should be used to keep the concentration in the workplace exposure limit (WELs).

**Inhalation protection:** No special equipment is required in well-ventilated areas. Use artificial respiration equipment in poorly ventilated areas.

**Hand protection:** Avoid direct contact. Protective gloves should be used for sensitive skin. (Nitrile gloves EN 374)

**Eye protection:** Wear goggles or protective equipment with protective screen. (EN 166)

**Other Protection:** Apply general hygiene regulations concerning the use of chemical substances. Wash your hands with water during the breaks and after work is finished. Keep it away from the food, drinks, and meals. Take off contaminated clothing and protective equipment before entering into mess halls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical state | Liquid |
| Odor | Characteristic |
| pH | Not applicable |
| Melting point / Freezing point | Not applicable |
| Boiling point / Boiling interval | >149 °C |
| Flashing Point | >100 °C |
| Evaporation rate | Not applicable |
| Flammability | Not flammable |
| Upper/lower limits for flammability or explosion | Not applicable |
| Steam Pressure | Not applicable |
| Steam density | Not applicable |
| Relative Density | 1,035 gr/ml |
| Solubility in water | Not miscible |
| Log Pow (log octanol/water partition coefficient) | Not applicable |
| Flammability temperature | Not applicable |
| Decay temperature | Not applicable |
| Fluidity | Not applicable |
| Explosive / oxidizing property | Not applicable |
| Viscosity | 7000-14000 cPS |

## 10. STABILITY AND REACTIVITY

**Stability:** It is stable under normal temperature values.

**Conditions to avoid:** No data available.

**Materials to avoid:** Protect from sunlight. Don't expose to temperatures exceeding 50°C.

**Possibility of Hazardous Reactions:** No data available.



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## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxic effects**

Non-toxic.

**11.1.1 Acute Toxicity of the Substance;**

**Methacrylic acid, monoester with propane-1,2-diol;**

| | | |
|---|---|---|
| Acute toxicity | **Oral** | LD50 2000 mg/kg bw (Rat) |
| | **Inhalation** | - |
| | **Dermal** | LD50 5000 mg/kg bw (Rabbit) |

**Cumene;**

| | | |
|---|---|---|
| Acute toxicity | **Oral** | LD50 2260-2700 mg/kg bw (rat) |
| | **Inhalation** | LC0 (6 h) 17,6 mg/L air (Rat)<br>LC0 (60 min) 22,1 mg/L air (Rat)<br>LC50 (7 h) 10 mg/L air (mouse)<br>LC50 (7 h) 2000 ppm (mouse) |
| | **Dermal** | LD50 3160 mg/kg bw (Rabbit)<br>LD0 10000 mg/kg bw (rabbit) |

**Cumene Hydroperoxide;**

| | | |
|---|---|---|
| Acute toxicity | **Oral** | LD50 382-2000 mg/kg bw (Rat)<br>LD50 1,39 mL/kg bw (Rat) |
| | **Inhalation** | Rat (1,39 mL/kg bw)<br>LC50 (4 h) 220 ppm (Rat)<br>LC50 (4 h) 200 ppm (mouse) |
| | **Dermal** | LD50 0,5-1,43 mL/ kg bw (Rat)<br>LD50 0,126 mL/kg bw (Rabbit) |

**11.1.2 Skin Corrosion / Irritation**

Causes severe irritation.

**11.1.3 Severe Eye Damage / Irritation**

Causes severe irritation.

**11.1.4 Respiratory or Skin Sensitisation**

Causes severe irritation.



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**11.1.5 Sex Cell Mutagenicity**

No information available on the content of mutagenic adverse agent.

**11.1.6 Carcinogenicity**

As stated in 29 CFR 1910.1200 (Risk Statement), this product has no information on the content of carcinogenic substances, as listed in NTP17, IARC18 or OSHA19.

**11.1.7 Reproductive Toxicity**

No information available on the content reproductive toxicity.

**11.1.8 Specific Target Organ Toxicity -Single Exposure (STOT-Single):**

No data available.

**11.1.9 Specific Target Organ Toxicity-Repeated Exposure (STOT-Repeated)**

No data available on Specific Target Organ Toxicity- Repeated Exposure.

**11.2 Aspiration Hazards**

No data available.

**11.3 Information Hazards Classification, Differentiation or Effects**

Skin Sens.H317

Eye Irrit. 2 H319

**11.4 Information on Hazards of the Mixture as it is released to the market**

Skin Sens.H317

Eye Irrit. 2 H319

**11.5 Information on Test Data**

No information available

**11.6 Further Supplementary Information on Classification Criteria**

No information available

**11.7 Information on Possible Exposures**

Inhalation exposure: May cause irritation of respiratory system if inhaled.

Ingestion: Causes severe burns and pain in the throat, stomachache, nausea, bloody vomiting, shortness of breath, shock and loss of consciousness, as well as mucosal irritation in the chest and abdomen. Creates the risk of gastric perforation. Causes severe irritation and harm at gullet, stomach, and intestines Causes rashes and irritation when splashes and in contact with the skin. Causes eye redness and tears when splashes and in contact with the eyes.

Target Organs: Eyes, skin.

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity**

The product is not expected to be hazardous for the environment.

**12.1.1 Acute Toxicity:**



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**Methacrylic acid, monoester with propane-1,2-diol;**

| | |
|---|---|
| Short–term toxicity to fish | LC50 (14 days) 100 mg/L<br>LC50 (4 days) 100 mg/L<br>LC50 (48 h) 493 mg/L<br>LC0 (14 days) 25 mg/L<br>LC0 (48 h) 379 mg/L |
| Short–term toxicity to aquatic invertebrates | EC50 (48 h) 143 - 380 mg/L<br>NOEC (48 h) 171 mg/L |
| Long–term toxicity to aquatic invertebrates | NOEC (21 days) 45,2 mg/L |
| Toxicity to aquatic algae and cyanobacteria | EC50 (72 h) 97,2-345 mg/L<br>NOEC (72 h) 97,2-160 mg/L |

**Cumene;**

| | |
|---|---|
| Short–term toxicity to fish | LC50 (4 days) 4.7 - 4.8 mg/L<br>LC50 (72 h) 4.8 - 5.2 mg/L<br>LC50 (48 h) 5.7 - 5.8 mg/L<br>LC50 (24 h) 6.4 - 8.1 mg/L<br>NOEC (4 days) 1.9 - 2.9 mg/L |
| Long–term toxicity to fish | NOEC (28 days) 380 µg/L |
| Short–term toxicity to aquatic invertebrates | EC50 (48 h) 2.14 mg/L<br>EC50 (24 h) 2.45 mg/L<br>EC10 (48 h) 1.3 mg/L<br>EC10 (24 h) 1.4 mg/L<br>NOEC (48 h) 1.6 mg/L |
| Long–term toxicity to aquatic invertebrates | NOEC (21 days) 350 µg/L<br>EC10 (21 days) 600 µg/L<br>EC50 (21 days) 1.5 mg/L<br>LC50 (21 days) 3 mg/L |
| Toxicity to aquatic algae and cyanobacteria | EC50 (72 h) 1.29 - 2.01 mg/L<br>NOEC (72 h) 730 - 1 490 µg/L<br>EC10 (72 h) 697 - 1 350 µg/L |
| Toxicity to microorganisms | EC50 (3 h) 2 g/L<br>EC10 (3 h) 2 g/L |

**Cumene Hydroperoxide;**

| | |
|---|---|
| Short–term toxicity to fish | LC50 (4 days) 3.9 mg/L<br>LC100 (4 days) 6 mg/L<br>NOEC (4 days) 1.5 mg/L |
| Short–term toxicity to aquatic invertebrates | EC50 (48 h) 18.84 mg/L<br>NOEC (48 h) 9.15 mg/L<br>LOEC (48 h) 18.23 mg/L |


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**12.2 Persistence and Degradability:**

Essentially it is biodegradable in water.

**12.3. Bioaccumulative Potential:** Bioaccumulation is not expected.

**12.4. Mobility in Soil;** Mobility in soil is not expected.

**12.5 Results of PBT & vPvB Assessment:** Not applicable.

**12.6. Other adverse effects:**

Environmental hazards: The product should not be released to the sewer systems or water streams.

Biological Accumulation: The surfactants in this mixture conform to the biodegradability criteria set out in European Union law no. 648/2004.

## 13. DISPOSAL CONSIDERATIONS

**Product: Dispose of in accordance with local regulations. The waste codes are not specific to the product but to the use in accordance with the European waste catalog. The waste codes should be determined by the user, preferably in consultation with the waste disposal facilities.**

**Product remnants:** Recyclable container. Do not perforate or burn, even after use. Do not dispose of empty packaging with normal household waste. Containers must be recycled or reused. The packaging with no product should be considered as chemical waste.

**Contaminated package:** Dispose of it as a used product. Empty containers should be taken to an certified waste disposal facility for recycling or disposal.

**Local legislation:** Disposal of waste must comply with applicable regional, national and local laws and regulations. Local regulations may be more strict than regional and national requirements and must be followed.

## 14. TRANSPORT INFORMATION

**ADR/RID; IMDG; ICAO/IATA: UN Number:** No application available.

**ADR/RID; IMDG; ICAO/IATA: Proper UN transport name:** No application available.

**ADR/RID; IMDG; ICAO/IATA: Transport class:** No application available.

**ADR/RID; IMDG; ICAO/IATA: Packing group:** No application available.

**ADR/RID; IMDG; ICAO/IATA: Environmental hazards:** No environmental hazard.

**Special precautions for user:** No information available

**MARPOL:** No information available.

## 15. REGULATORY INFORMATION

REPUBLIC OF TURKEY This document has been prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Preparations which was published in Official Gazette dated 13 December 2014 and numbered 29204, by the Ministry of Environment and Urbanization.

Regulation on the classification, labeling, and packaging of substances and mixtures. Official Gazette dated 11.12. 2013, numbered 288448.



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Regulation on the transport of dangerous materials by road, Official Gazette dated 24.10.2013, numbered 28801.

## 16. OTHER INFORMATION

**Revision:** Prepared for the first time. This MSDS has been prepared according to the regulation on safety data sheet no. 29204 dated 13.12.2014.

Abbreviations:

| | |
|---|---|
| STOT | Specific target organ toxicity |
| MSDS | Material Safety Data Sheet |
| PBT | Persistent Bioaccumulative and Toxic |
| DNEL | Derived no-effect level (DNEL) |
| vPvB | Very persistent and very bioaccumulative |
| ADR | The European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ADNR | The European Agreement concerning the international carriage of Dangerous goods on the Rhine river |
| BCF | Biological concentration factor |
| BetrSchV | Operational safety guidance |
| CMR | Carcinogenic, Mutagenic or Toxic for Reproduction |
| GLP | Good laboratory practice |
| IATA | International Air Transport Association |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LOAEL | Lowest-observed-adverse-effect level of the chemical at animal experts. |
| LOEL | Lowest-observed-effect level of the chemical at animal experts. |
| NOAEL | No-observed-adverse-effect level (Highest dose at which there was not an observed toxic or adverse effect). |
| OECD | Organisation for Economic Co-operation and Development |
| PNEC | Predicted No Effect Concentration (the concentration below which exposure to a substance is not expected to cause adverse effects). |
| RID | International Transport of Dangerous Goods by Rail |
| TA | Technical Arrangement |
| TRGS | The Technical Rules for Hazardous Substances |
| VCI | Chemicals Industry Association |
| VOC | Volatile organic compounds |
| VwVwS | Regulation on the Classification of Substances Hazardous to Water |



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| | |
|---|---|
| WGK | Classification Hazards to Water |
| EC50 | Concentration with medium activity |
| STOT | Specific target organ toxicity |
| OEL | Occupational exposure limits |
| PEC | Predicted Environmental Concentrations |
| NOEC | No observed effect concentration |
| NOEL | No-observed-effect level (Highest dose at which there was not an observed toxic effect). |
| ISO | International Organization for Standardization |
| DIN | German Standards Institute |
| TWA | Time Weighted Average for the exposure to a chemical |
| STEL | Short-term exposure limit |

This MSDS has been prepared by using the data received from the supplier, and Annex-6 of SAE regulation.

**Hazards statements:**

H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H411 Toxic to aquatic life with long lasting effects.

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