



SAFETY DATA SHEET

Copper Sulphate Pentahydrate

Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (KKDIK) dated 23.06.2017 and numbered 30105.

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

1.1. Product identifier

Product name Copper Sulphate Pentahydrate
CAS number 7758-99-8

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

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier LAPISCHEM KİMYA SAN. ve TİC. A.Ş.
Yeni Mh. Aliğa Sk. Bmerang Kartal
No:8 K:2 D:4 Pk:34880
Kartal- İstanbul - Türkiye
+ 90 216 599 07 53
+ 90 216 599 07 54
info@lapischem.com www.lapischem.com

1.4. Emergency telephone number

National emergency telephone number Health Service : 112 Email: director.birmingham.unit@npis.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H302 Eye Dam. 1 - H318
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H400 Very toxic to aquatic life.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.



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| | |
|--------------------------|---|
| Precautionary statements | <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
|--------------------------|---|

Contains Copper sulphate pentahydrate

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|------------------------------|----------------------|
| Copper sulphate pentahydrate | 100% |
| CAS number: 7758-99-8 | EC number: 616-477-9 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|---|
| General information | Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. |
| Inhalation | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. |
| Ingestion | Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. |
| Skin contact | Rinse with water. |
| Eye contact | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. |

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

| | |
|---------------------|--|
| General information | See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | No specific symptoms known. |
| Ingestion | May cause discomfort if swallowed. Stomach pain. Nausea, vomiting. |



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| | |
|--------------|--|
| Skin contact | Prolonged contact may cause dryness of the skin. |
| Eye contact | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. |

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

| | |
|----------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|----------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------------------------|--|
| Specific hazards | This product is toxic. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |

5.3. Advice for firefighters

| | |
|---|--|
| Protective actions during firefighting | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|----------------------|---|
| Personal precautions | No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. |
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6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Approach the spillage from upwind. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralise with alkali. Caution. May generate heat. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in accordance with local regulations. Store away from the following materials: Alkalis. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class Toxic storage.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

There is no current information on occupational exposure limit values of the product and its components.



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8.2. Exposure controls

Protective equipment



| | |
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| Appropriate engineering controls | Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure. |
| Eye/face protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. |
| Other skin and body protection | Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. |
| Hygiene measures | Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product. |
| Respiratory protection | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. |
| Environmental exposure controls | Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses. |



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Appearance | Solid. |
| Colour | Blue. |
| Odour | No characteristic odour. |
| Odour threshold | Inconclusive data. |
| pH | pH (diluted solution): 50 g/l 20 °C 3,5 - 4,5 |
| Melting point | 650°C |
| Initial boiling point and range | No specific test data are available. |
| Flash point | No information available. |
| Evaporation rate | No information required. |
| Evaporation factor | Inconclusive data. |
| Flammability (solid, gas) | Not relevant. |
| Upper/lower flammability or explosive limits | Not relevant. |
| Relative density | 2,284 gr/cm ³ |
| Solubility(ies) | Soluble in water. |
| Viscosity | No information required. |
| Explosive properties | No specific test data are available. |

9.2. Other information

| | |
|-------------------|--------------------------|
| Other information | No information required. |
|-------------------|--------------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|------------|---|
| Reactivity | There are no known reactivity hazards associated with this product. |
|------------|---|

10.2. Chemical stability

| | |
|-----------|---|
| Stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |
|-----------|---|

10.3. Possibility of hazardous reactions

| | |
|------------------------------------|---|
| Possibility of hazardous reactions | No potentially hazardous reactions known. |
|------------------------------------|---|

10.4. Conditions to avoid

| | |
|---------------------|---|
| Conditions to avoid | There are no known conditions that are likely to result in a hazardous situation. |
|---------------------|---|

10.5. Incompatible materials

| | |
|--------------------|------------------|
| Materials to avoid | Alkalis. Amines. |
|--------------------|------------------|

10.6. Hazardous decomposition products



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|----------------------------------|--|
| Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. |
|----------------------------------|--|

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

| | |
|--------------------------------|---|
| Notes (oral LD ₅₀) | Acute Tox. 4 - H302 Harmful if swallowed. |
|--------------------------------|---|

| | |
|------------------|-------|
| ATE oral (mg/kg) | 482.0 |
|------------------|-------|

Acute toxicity - dermal

| | |
|----------------------------------|--|
| Notes (dermal LD ₅₀) | Based on available data the classification criteria are not met. |
|----------------------------------|--|

Acute toxicity - inhalation

| | |
|--------------------------------------|--|
| Notes (inhalation LC ₅₀) | Based on available data the classification criteria are not met. |
|--------------------------------------|--|

Skin corrosion/irritation

| | |
|-------------|--|
| Animal data | Based on available data the classification criteria are not met. |
|-------------|--|

Serious eye damage/irritation

| | |
|-------------------------------|--|
| Serious eye damage/irritation | Eye Dam. 1 - H318 Causes serious eye damage. |
|-------------------------------|--|

Respiratory sensitisation

| | |
|---------------------------|--|
| Respiratory sensitisation | Based on available data the classification criteria are not met. |
|---------------------------|--|

Skin sensitisation

| | |
|--------------------|--|
| Skin sensitisation | Based on available data the classification criteria are not met. |
|--------------------|--|

Germ cell mutagenicity

| | |
|-------------------------|--|
| Genotoxicity - in vitro | Based on available data the classification criteria are not met. |
|-------------------------|--|

Carcinogenicity

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

IARC carcinogenicity

| | |
|--|---|
| | None of the ingredients are listed or exempt. |
|--|---|

Reproductive toxicity

| | |
|-----------------------------------|--|
| Reproductive toxicity - fertility | Based on available data the classification criteria are not met. |
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| | |
|-------------------------------------|--|
| Reproductive toxicity - development | Based on available data the classification criteria are not met. |
|-------------------------------------|--|

Specific target organ toxicity - single exposure

| | |
|------------------------|---|
| STOT - single exposure | Not classified as a specific target organ toxicant after a single exposure. |
|------------------------|---|

Specific target organ toxicity - repeated exposure

| | |
|--------------------------|---|
| STOT - repeated exposure | Not classified as a specific target organ toxicant after repeated exposure. |
|--------------------------|---|

Aspiration hazard

| | |
|-------------------|----------------------|
| Aspiration hazard | Not relevant. Solid. |
|-------------------|----------------------|

General information

| | |
|--|---|
| | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
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| | |
|-------------------|--|
| Inhalation | No specific symptoms known. |
| Ingestion | May cause discomfort if swallowed. Stomach pain. Nausea, vomiting. |
| Skin contact | Prolonged contact may cause dryness of the skin. |
| Eye contact | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. |
| Route of exposure | Ingestion Inhalation Skin and/or eye contact |
| Target organs | No specific target organs known. |

Toxicological information on ingredients.

Copper sulphate pentahydrate

Acute toxicity - oral

| | |
|--|-------|
| Acute toxicity oral (LD ₅₀ mg/kg) | 482.0 |
| Species | Rat |
| ATE oral (mg/kg) | 482.0 |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|----------|---|
| Toxicity | Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects. |
|----------|---|

Ecological information on ingredients.

Copper sulphate pentahydrate

Acute aquatic toxicity

| | |
|--|---|
| LE(C) ₅₀ | 0.01 < L(E)C ₅₀ ≤ 0.1 |
| M factor (Acute) | 10 |
| Acute toxicity - fish | LC ₅₀ , 96 hour: 38.4 µg/l, Pimephales promelas (Fat-head Minnow) LC ₅₀ , 96 hour: 1 - 2,5 mg/l, |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hour: 0,024 mg/l, Daphnia magna |

Chronic aquatic toxicity

| | |
|--------------------|----|
| M factor (Chronic) | 10 |
|--------------------|----|

12.2. Persistence and degradability

| | |
|-------------------------------|--|
| Persistence and degradability | The degradability of the product is not known. |
|-------------------------------|--|

12.3. Bioaccumulative potential

| | |
|---------------------------|---------------------------------------|
| Bioaccumulative potential | No data available on bioaccumulation. |
|---------------------------|---------------------------------------|

12.4. Mobility in soil

| | |
|----------|---|
| Mobility | The product is water-soluble and may spread in water systems. |
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|---------------------|--|
| General information | The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. |
| Disposal methods | Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. |

SECTION 14: Transport information

| | |
|---------|---|
| General | For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section. |
|---------|---|

14.1. UN number

| | |
|------------------|------|
| UN No. (ADR/RID) | 3077 |
| UN No. (IMDG) | 3077 |
| UN No. (ICAO) | 3077 |
| UN No. (ADN) | 3077 |

14.2. UN proper shipping name

| | |
|--------------------------------|--|
| Proper shipping name (ADR/RID) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS Copper sulphate pentahydrate) |
| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS Copper sulphate pentahydrate) |
| Proper shipping name (ICAO) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS Copper sulphate pentahydrate) |
| Proper shipping name (ADN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS Copper sulphate pentahydrate) |

14.3. Transport hazard class(es)

| | |
|-----------------------------|----|
| ADR/RID class | 9 |
| ADR/RID classification code | M7 |
| ADR/RID label | 9 |



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|---------------------|---|
| IMDG class | 9 |
| ICAO class/division | 9 |
| ADN class | 9 |

Transport labels



14.4. Packing group

| | |
|-----------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group | III |
| ICAO packing group | III |
| ADN packing group | III |

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

| | |
|--|----------|
| EmS | F-A, S-F |
| ADR transport category | 3 |
| Emergency Action Code | 2Z |
| Hazard Identification Number (ADR/RID) | 90 |
| Tunnel restriction code | (-) |

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

| | |
|----------------------|--|
| National regulations | Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. |
|----------------------|--|



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EU legislation
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
 Commission Regulation (EU) No 453/2010 of 20 May 2010.
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
 Dangerous Preparations Directive 1999/45/EC.
 Dangerous Substances Directive 67/548/EEC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

| | |
|--|--|
| Classification procedures according to Regulation (EC) 1272/2008 | Acute Tox. 4 - H302: Eye Dam. 1 - H318: : Calculation method. Aquatic Acute 1 - H400: Aquatic Chronic 1 - H410: : Calculation method. |
| Training advice | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| Issued by | Chemical Assessment Specialist: Bora Şen Effective Date: November 25, 2025 Certificate No & Date: TÜV / 11.49.03 & 2 November 2020 Mobil: +90 533 622 57 99 Email: bora@vegatmgd.com |
| Revision date | 13/10/2021 |
| Revision | 1 |
| Supersedes date | 13/10/2021 |
| SDS number | 6056 |
| SDS status | Approved. |
| Hazard statements in full | H302 Harmful if swallowed. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.