SAFETY DATA SHEET
MAXIMARINE CYL 70

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name MAXIMARINE CYL 70

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

Identified uses Marine Engine Oil.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier PETROL OFİSİ A.Ş.
Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ Istanbul
Tel: +90 850 339 1919
Fax: +90 216 275 3854
madeniyag@petrolofisi.com.tr

Contact person Customer Services: madeniyag@petrolofisi.com.tr

1.4. Emergency telephone number

Emergency telephone Madeni Yağ Customer Services: 0850 339 1919 (working hours)

National emergency telephone number Emergency Medical Services: 112 National Poison Consultance Center: 114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P401 Store in accordance with national regulations.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

No other information known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Distillates (petroleum), hydrotreated heavy paraffinic			**40-60%**
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01-2119484627-25-0033	
Classification Not Classified			
Yüksek düzeyde rafine edilmiş madeni yağ (C15- C50)			**10-20%**
CAS number: —			
Classification Not Classified			
Phenol,paraalkylation prod. with C10-15 branched olefins (C12 rich) derived from propene oligomerization,carbonates,Ca salts,overbased,sulfurized including dist. (petroleum), hydrotreated,solvent refined/dewaxed,cat. dewaxed,light/heavy paraffinic C15-C50			**1-5%**
CAS number: 68784-26-9			
Classification Aquatic Chronic 4 - H413			

The full text for all hazard statements is displayed in Section 16.

Composition comments Highly refined mineral oil (C15-50):
Includes one or more of following EINECS numbers:265-090-8, 265-091-3, 265-096-0, 265-097-6,265-098-1, 265-101-6, 265-155-0, 265-156-6, 265-157-1, 265-158-7, 265-159-2, 265-160-8, 265-166-0, 265-169-7,265-176-5, 276-736-3, 276-737-9, 276-738-4, 278-012-2.
Includes one or more of following REACH record numbers:1-2119488706-23, 01-2119487067-30,01-2119487081-40, 01-2119483621-38, 01-2119480374-36, 01-2119488707-21, 01-2119467170-45, 01-2119480375-34, 01-2119484627-25, 01-2119480132-48, 01-2119487077-29, 01-2119489287-22, 01-2119480472-38, 01-2119471299-27, 01-2119485040-48, 01-2119555262-43, 01-2119495601-36, 01-2119474889-13, 01-2119474878-16. The DMSO contents of some substances are classified by the manufacturer as <3% according to IP 346.

Ingredient notes See Section 8 for occupational exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation No special treatment required. Move affected person to fresh air at once. Get medical attention if symptoms are severe or persist.

Ingestion No special treatment required. Do not induce vomiting. Get medical attention if symptoms are severe or persist.

Skin contact No special treatment required. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Remove contamination with soap and water or recognised skin cleansing agent.

Eye contact No special treatment required. Remove contact lenses, if present and easy to do. Continue rinsing.

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Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information Treat symptomatically.

Inhalation Not expected to be harmful if inhaled.Contains petroleum based mineral oil.Oil vapor may cause respiratory irritation or other pulmonary effects if inhaled prolonged or repeated by air at levels above the recommended mineral oil vapor exposure limit.Symptoms of respiratory irritation may include coughing and difficulty breathing.

Ingestion No specific symptoms known.

Skin contact No specific symptoms known.

Eye contact No specific symptoms known.

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

Notes for the doctor Treat symptomatically.

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

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 Not known.

Hazardous combustion products A complex mixture of airborne solids, liquids and gases can be released. Carbon dioxide (CO2). Carbon monoxide (CO). Unidentified organic or inorganic compounds. Sulphur. Calcium.

5.3. Advice for firefighters

Protective actions during firefighting This product is flammable even if it is not easily ignited.Refer to Section 7 for proper handling and storage. In case of insufficient ventilation, wear the required breathing apparatus. Dispose of fire debris and contaminated fire-fighting water in accordance with applicable legal legislation. No action shall be taken without appropriate training or involving any personal risk.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. No smoking, sparks, flames or other sources of ignition near spillage. Wear protective clothing as described in Section 8 of this safety data sheet.

For non-emergency personnel Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

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For emergency responders Wear protective clothing as shown in section 8 of this safety data sheet. Notification: In case of spillage, notify the local authorities as appropriate or as necessary. Stop the leakage source if it can be done without risk.Limit spillage to prevent further contamination of soil, surface or ground water.Remove any spilled material as soon as possible by following the precautions in the section Exposure Controls / Personal Protection.Use suitable techniques such as non-flammable absorbent materials or pumping.When possible or appropriate, remove the contaminated soil from the area.Place contaminated products in disposable boxes and dispose of in accordance with regulations.If a heated material is spilled, allow it to cool before handling with disposal methods. Proper ventilation should be provided.

6.2. Environmental precautions

Environmental precautions Apply protective methods to prevent spilled material from entering into water sources, water channels, sewers and soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water sources, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may be pose the same hazard as the spilled product. Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. See Section 1 for emergency contact information. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. See Section 7 for more information on safe handling.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Prevent soil contamination or spillage into sewage systems and water. Wear protective equipment as directed in Section 8 of this safety data sheet for proper personal protection. Good ventilation should be provided in the working environment and inhalation of vapor generated during use should be avoided.
Skin contact should be avoided and hygienic rules should be followed.
Eye contact should be avoided. Wear goggles or a face mask to prevent eye contact.
Avoid eating, drinking and smoking while using. Use disposable clothing. Static hazard: Electrostatic charge may accumulate when working on it.Tying or grounding may be required to minimize this risk.Review all processes that have the potential to create and collect electrostatic charge and / or flammable atmospheres, and follow the relevant mitigation practices.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions The container is not designed to contain pressure.Do not apply pressure to discharge the container otherwise it may rupture with explosive force.Empty containers may contain product residue and it can be dangerous.Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. Containers should be drained completely and disposed of properly.

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Storage class Chemical storage.

7.3. Specific end use(s)

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

Usage description The product must be used as specified in the data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Distillates (petroleum), hydrotreated heavy paraffinic

Oil mist: TWA: 5 mg/m3 (ACGIH).In no case should this limit be exceeded or the local limit, if it is more restrictive.

Yüksek düzeyde rafine edilmiş madeni yağ (C15- C50)

Mineral Oil; TWA: 5 mg/m3 , ACGIH (United States)
Mineral oil: ACGIH, STEL:10 mg/m3

Ingredient comments No other information known.

Biological limit values No other information known.

DNEL No other information known.

DMEL No other information known.

PNEC No other information known.

Highly refined mineral oil (CAS: 64742-01-4)

Ingredient comments Oil Mist TWA: 5 mg /m3 (ACGIH).

8.2. Exposure controls

Protective equipment

Appropriate engineering controls When determining engineering controls and when choosing personal protection equipment, consider the possible risks of this substance (see Section 2), appropriate exposure limits, business activities and other substances in the workplace.If engineering controls and work practices are not sufficient to prevent exposure to harmful levels of this substance, the use of personal protective equipment as described in this section is recommended. Ensure good ventilation.Eye / face washing units and safety showers should be installed close to the work area for use in case of emergency, injury and exposure.

Personal protection Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye/face protection Chemical splash goggles or face shield.

Hand protection Wear protective gloves.

Other skin and body protection Avoid contact with skin.

Hygiene measures Good personal hygiene procedures should be implemented.

Respiratory protection Use appropriate respiratory protection if there is the potential to exceed the exposure limits.

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Thermal hazards	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Brownish.
Odour	Characteristic.
Odour threshold	No specific test data are available.
pH	Scientifically unjustified.
Melting point	No specific test data are available.
Initial boiling point and range	No specific test data are available.
Flash point	> 220°C Cleveland open cup.
Evaporation rate	No specific test data are available.
Evaporation factor	No specific test data are available.
Flammability (solid, gas)	No specific test data are available.
Upper/lower flammability or explosive limits	No specific test data are available.
Other flammability	No specific test data are available.
Vapour pressure	No specific test data are available.
Vapour density	No specific test data are available.
Relative density	No specific test data are available.
Bulk density	~ 0,93 g/ml
Solubility(ies)	Insoluble in water.
Partition coefficient	No specific test data are available.
Auto-ignition temperature	No specific test data are available.
Decomposition Temperature	No specific test data are available.
Viscosity	min. 18,5 cSt @ 100°C
Explosive properties	No specific test data are available.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not known.
Comments	No other information known.

9.2. Other information

Other information	No information required.
Refractive index	No specific test data are available.

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Particle size	No specific test data are available.
Molecular weight	No specific test data are available.
Volatility	No specific test data are available.
Saturation concentration	No specific test data are available.
Critical temperature	No specific test data are available.
Volatile organic compound	No specific test data are available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	It can react with strong oxidizing chemicals such as strong acids or chlorate, nitrate, peroxide, etc.

10.2. Chemical stability

Stability	This material is considered stable under normal environmental conditions and in the conditions of storage and handling foreseen.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid	Not available.

10.5. Incompatible materials

Materials to avoid	Not available.

10.6. Hazardous decomposition products

Hazardous decomposition products	Not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.
Other health effects	Information given is based on data of the components and of similar products.

Acute toxicity - oral

Summary	Information given is based on data of the components and of similar products.
Notes (oral LD_{50})	Information given is based on data of the components and of similar products.

Acute toxicity - dermal

Summary	Information given is based on data of the components and of similar products.
Notes (dermal LD_{50})	Information given is based on data of the components and of similar products.

Acute toxicity - inhalation

Summary	Information given is based on data of the components and of similar products.
Notes (inhalation LC_{50})	Information given is based on data of the components and of similar products.

Skin corrosion/irritation

Summary	Information given is based on data of the components and of similar products.

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Skin corrosion/irritation	Information given is based on data of the components and of similar products.
Animal data	Information given is based on data of the components and of similar products.
Human skin model test	Information given is based on data of the components and of similar products.
Extreme pH	Information given is based on data of the components and of similar products.

Serious eye damage/irritation

Summary	Information given is based on data of the components and of similar products.
Serious eye damage/irritation	Information given is based on data of the components and of similar products.

Respiratory sensitisation

Summary	Information given is based on data of the components and of similar products.
Respiratory sensitisation	Information given is based on data of the components and of similar products.

Skin sensitisation

Summary	Information given is based on data of the components and of similar products.
Skin sensitisation	Information given is based on data of the components and of similar products.

Germ cell mutagenicity

Summary	Information given is based on data of the components and of similar products.
Genotoxicity - in vitro	Information given is based on data of the components and of similar products.
Genotoxicity - in vivo	Information given is based on data of the components and of similar products.

Carcinogenicity

Summary	Information given is based on data of the components and of similar products.
Carcinogenicity	Information given is based on data of the components and of similar products.
Target organ for carcinogenicity	Information given is based on data of the components and of similar products.
IARC carcinogenicity	Information given is based on data of the components and of similar products.
NTP carcinogenicity	Information given is based on data of the components and of similar products.

Reproductive toxicity

Summary	Information given is based on data of the components and of similar products.
Reproductive toxicity - fertility	Information given is based on data of the components and of similar products.
Reproductive toxicity - development	Information given is based on data of the components and of similar products.

Specific target organ toxicity - single exposure

Summary	Information given is based on data of the components and of similar products.
STOT - single exposure	Information given is based on data of the components and of similar products.
Target organs	Information given is based on data of the components and of similar products.

Specific target organ toxicity - repeated exposure

Summary	Information given is based on data of the components and of similar products.
STOT - repeated exposure	Information given is based on data of the components and of similar products.
Target organs	Information given is based on data of the components and of similar products.

Aspiration hazard

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Summary	Information given is based on data of the components and of similar products.
Aspiration hazard	Information given is based on data of the components and of similar products.
Toxicokinetics	Information given is based on data of the components and of similar products.
General information	Information given is based on data of the components and of similar products.
Inhalation	Information given is based on data of the components and of similar products.
Ingestion	Information given is based on data of the components and of similar products.
Skin contact	Information given is based on data of the components and of similar products.
Eye contact	Information given is based on data of the components and of similar products.
Acute and chronic health hazards	Information given is based on data of the components and of similar products.
Route of exposure	Information given is based on data of the components and of similar products.
Target organs	Information given is based on data of the components and of similar products.
Medical symptoms	Information given is based on data of the components and of similar products.
Medical considerations	Information given is based on data of the components and of similar products.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >2000 mg/kg, Oral,

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal,

Carcinogenicity

Summary The base oils in the product content contain less than 3% DMSO according to IP 346.

Highly refined mineral oil

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >2000 mg/kg, Oral,

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} >2000 mg/kg, Dermal,

SECTION 12: Ecological information

Ecotoxicity This substance is not expected to be harmful to aquatic organisms.The product has not been tested.The expression is derived from the properties of each component.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Ecotoxicity May be harmful to aquatic organisms. Spills form film layer on water surface and prevent oxygen transfer

12.1. Toxicity

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Toxicity	This substance is not expected to be harmful to aquatic organisms.The product has not been tested.The expression is derived from the properties of each component.

Acute aquatic toxicity

Summary	Information given is based on data of the components and of similar products.
Acute toxicity - fish	Information given is based on data of the components and of similar products.
Acute toxicity - aquatic invertebrates	Information given is based on data of the components and of similar products.
Acute toxicity - aquatic plants	Information given is based on data of the components and of similar products.
Acute toxicity - microorganisms	Information given is based on data of the components and of similar products.
Acute toxicity - terrestrial	Information given is based on data of the components and of similar products.

Chronic aquatic toxicity

Summary	Information given is based on data of the components and of similar products.
Chronic toxicity - fish early life stage	Information given is based on data of the components and of similar products.
Short term toxicity - embryo and sac fry stages	Information given is based on data of the components and of similar products.
Chronic toxicity - aquatic invertebrates	Information given is based on data of the components and of similar products.
Toxicity to soil	Information given is based on data of the components and of similar products.
Toxicity to terrestrial plants	Information given is based on data of the components and of similar products.

12.2. Persistence and degradability

Persistence and degradability	Information given is based on data of the components and of similar products.
Phototransformation	Information given is based on data of the components and of similar products.
Stability (hydrolysis)	Information given is based on data of the components and of similar products.
Biodegradation	Information given is based on data of the components and of similar products.
Biological oxygen demand	Information given is based on data of the components and of similar products.
Chemical oxygen demand	Information given is based on data of the components and of similar products.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Biodegradation	Not expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	Information given is based on data of the components and of similar products.
Partition coefficient	No specific test data are available.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Bioaccumulative potential	Potentially bioaccumulating.

12.4. Mobility in soil

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Mobility	Information given is based on data of the components and of similar products.
Adsorption/desorption coefficient	Information given is based on data of the components and of similar products.
Henry's law constant	Information given is based on data of the components and of similar products.
Surface tension	Information given is based on data of the components and of similar products.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Mobility	Liquid under most environmental conditions. Floats on water. If spread into ground the groundwater may be polluted.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects	Information given is based on data of the components and of similar products.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible.
Disposal methods	Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class	The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

General	Not regulated.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
Not applicable.

14.6. Special precautions for user

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Not applicable.

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 T. C. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848, dated 11 December 2013, by the Ministry of Environment and Urbanization.
T. C. Ministry of Environment and Urbanization Regulation on Safety Data Sheets on Hazardous Substances and Mixtures

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Safety Data Sheets for Substances and Preparations.
Source: European Chemicals Agency, http://echa.europa.eu/

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

E.U. : European union
DMSO: Dimethyl sulfoxide
KKE: Personal protective aquipment
STEL: Short term exposure limit
T.C. : Republic of Turkey
TWA: Workplace exposure limits
UZEM: National Poison Information Center
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
PBT: Persistent, Bioaccumulative and Toxic substance.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
PNEC: Predicted No Effect Concentration.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

Classification abbreviations and acronyms Aquatic Chronic = Hazardous to the aquatic environment (chronic)

General information Only trained personnel should use this material. MSDS Distribution : The information in this document should be made available to all who may handle the product. Uses and Restrictions : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Key literature references and sources for data	This SDS is prepared based on the information received from raw material suppliers.
Classification procedures according to Regulation (EC) 1272/2008	Not classified for environmental hazards., Not classified for physical hazards., Not classified for health hazards.: Supplier information, Calculation method.
Training advice	Untrained personnel should not use.
Revision comments	This is the first issue.
Issued by	Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)
Revision	0
Supersedes date	20/01/2020
SDS number	20627
Hazard statements in full	H413 May cause long lasting harmful effects to aquatic life.