



## SAFETY DATA SHEET

### GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

##### 1.1. Product identifier

Product name GRAVIS M 220

Product number 28154

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

Identified uses Industrial 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/ İstanbul  
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 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

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

##### 2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.



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### Precautionary statements

P261 Avoid breathing vapour/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P321 Specific treatment (see medical advice on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/ container in accordance with national regulations.

### Contains

Amines, C10-14-tert-alkyl

### 2.3. Other hazards

No other information known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                                                                                                |                      |                                                  |               |
|------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------|---------------|
| <b>Distillates (petroleum), hydrotreated heavy paraffinic</b>                                  |                      |                                                  | <b>40-60%</b> |
| CAS number: 64742-54-7                                                                         | EC number: 265-157-1 | REACH registration number: 01-2119484627-25-0033 |               |
| <b>Classification</b><br>Not Classified                                                        |                      |                                                  |               |
| <b>Distillates (petroleum), hydrotreated heavy naphthenic</b>                                  |                      |                                                  | <b>&lt;1%</b> |
| CAS number: 64742-54-7                                                                         | EC number: 265-157-1 |                                                  |               |
| <b>Classification</b><br>Not Classified                                                        |                      |                                                  |               |
| <b>Phosphoric acid, mono- and bis(branched and linear pentyl) esters</b>                       |                      |                                                  | <b>&lt;1%</b> |
| CAS number: —                                                                                  | EC number: 282-784-6 |                                                  |               |
| <b>Classification</b><br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>Aquatic Chronic 3 - H412 |                      |                                                  |               |



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|                                                                                                                                                                                                                                           |                         |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|
| <b>Amines, C10-14-tert-alkyl</b>                                                                                                                                                                                                          |                         | <b>&lt;1%</b> |
| CAS number: —                                                                                                                                                                                                                             | EC number: 701-175-2    |               |
| M factor (Acute) = 1                                                                                                                                                                                                                      | M factor (Chronic) = 1  |               |
| <b>Classification</b><br>Acute Tox. 4 - H302<br>Acute Tox. 3 - H311<br>Acute Tox. 2 - H330<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>Skin Sens. 1A - H317<br>STOT SE 3 - H335<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 |                         |               |
| <b>1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol</b>                                                                                                                                  |                         | <b>&lt;1%</b> |
| CAS number: —                                                                                                                                                                                                                             | EC number: 293-927-7    |               |
| <b>Classification</b><br>Aquatic Chronic 3 - H412                                                                                                                                                                                         |                         |               |
| <b>C16-18-(even numbered, saturated and unsaturated)- alkylamines</b>                                                                                                                                                                     |                         | <b>&lt;1%</b> |
| CAS number: —                                                                                                                                                                                                                             | EC number: 627-034-4    |               |
| M factor (Acute) = 10                                                                                                                                                                                                                     | M factor (Chronic) = 10 |               |
| <b>Classification</b><br>Acute Tox. 4 - H302<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>STOT SE 3 - H335<br>STOT RE 2 - H373<br>Asp. Tox. 1 - H304<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410                             |                         |               |
| <b>Fuelsi diesel</b>                                                                                                                                                                                                                      |                         | <b>&lt;1%</b> |
| CAS number: 68334-30-5                                                                                                                                                                                                                    | EC number: 269-822-7    |               |
| <b>Classification</b><br>Carc. 2 - H351                                                                                                                                                                                                   |                         |               |

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

### Composition comments

Some substances are not classified by legislation. They are self classified by the manufacturer. The DMSO extract by IP 346 of the oil is less than 3%



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**Ingredient notes** See Section 8 for occupational exposure limits. This SDS is prepared based on the information received from raw material suppliers.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                   |                                                                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>        | Treat symptomatically.                                                                                                                                                                   |
| <b>Inhalation</b>                 | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.                                                           |
| <b>Ingestion</b>                  | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.                     |
| <b>Skin contact</b>               | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. |
| <b>Eye contact</b>                | Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.         |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.                                                                                                      |

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

|                            |                                                              |
|----------------------------|--------------------------------------------------------------|
| <b>General information</b> | See Section 11 for additional information on health hazards. |
| <b>Inhalation</b>          | No specific symptoms known.                                  |
| <b>Ingestion</b>           | No specific symptoms known.                                  |
| <b>Skin contact</b>        | No specific symptoms known.                                  |
| <b>Eye contact</b>         | No specific symptoms known.                                  |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
| <b>Specific treatments</b>  | Treat symptomatically. |

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                       |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.                        |

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

|                                      |                                                                                                                                                                                                                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards</b>              | Not known.                                                                                                                                                                                                                                                        |
| <b>Hazardous combustion products</b> | A complex mixture of airborne solids, liquids and gases can be released. Smoke and irritating vapours as products of incomplete combustion. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Oxides of nitrogen. Oxides of sulphur. Oxides of phosphorus. |

#### 5.3. Advice for firefighters

|                                                      |                                                                                                       |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Protective actions during firefighting</b>        | Avoid breathing fire gases or vapours.                                                                |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |



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### SECTION 6: Accidental release measures

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

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>        | Wear protective clothing as described in Section 8 of this safety data sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>For non-emergency personnel</b> | Necessary precautions should be taken to ensure that non-educated personnel do not intervene.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>For emergency responders</b>    | Notification: In case of spillage, notify the local authorities as appropriate or as necessary. Proper ventilation should be provided. 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. |

#### 6.2. Environmental precautions

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| <b>Environmental precautions</b> | Avoid discharge into drains or watercourses or onto the ground. |
|----------------------------------|-----------------------------------------------------------------|

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

|                                |                                                                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.4. Reference to other sections

|                                    |                                                                                                                                                                                                                                                            |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference to other sections</b> | 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. |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage precautions</b>                      | Good ventilation should be provided in the working environment and inhalation of vapor generated during use should be avoided.<br>Skin contact should be avoided and hygienic rules should be followed.<br>Eye contact should be avoided. Wear goggles or a face mask to prevent eye contact.<br>Avoid eating, drinking and smoking while using. Use disposable clothing. Prevent soil contamination or spillage into sewage systems and water. |
| <b>Advice on general occupational hygiene</b> | Persons susceptible to allergic reactions should not handle this product. 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. Take off contaminated clothing.                                                                                                                                    |

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

|                            |                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage precautions</b> | Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in accordance with national regulations. Store in a demarcated bunded area to prevent release to drains and/or watercourses. |
| <b>Storage class</b>       | Chemical storage.                                                                                                                                                                                                        |

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

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| <b>Specific end use(s)</b> | The identified uses for this product are detailed in Section 1.2. |
| <b>Usage description</b>   | The product must be used as specified in the data sheet.          |



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### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

No other information known.

##### Distillates (petroleum), hydrotreated heavy paraffinic

Oil mist: TWA: 5 mg/m<sup>3</sup> (ACGIH). In no case should this limit be exceeded or the local limit, if it is more restrictive.

##### Distillates (petroleum), hydrotreated heavy naphthenic

TLV/TWA

5 mg/m<sup>3</sup>

##### Ingredient comments

WEL = Workplace Exposure Limits

##### 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 /m<sup>3</sup> (ACGIH).

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

##### Personal protection

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

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

##### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

##### Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

##### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

##### Thermal hazards

If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.



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**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

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

|                                                     |                                      |
|-----------------------------------------------------|--------------------------------------|
| <b>Appearance</b>                                   | Liquid.                              |
| <b>Colour</b>                                       | Yellow.                              |
| <b>Odour</b>                                        | Characteristic.                      |
| <b>Odour threshold</b>                              | No specific test data are available. |
| <b>pH</b>                                           | Scientifically unjustified.          |
| <b>Melting point</b>                                | No specific test data are available. |
| <b>Initial boiling point and range</b>              | No specific test data are available. |
| <b>Flash point</b>                                  | >250°C OC (Open cup).                |
| <b>Evaporation rate</b>                             | No specific test data are available. |
| <b>Evaporation factor</b>                           | No specific test data are available. |
| <b>Flammability (solid, gas)</b>                    | No specific test data are available. |
| <b>Upper/lower flammability or explosive limits</b> | No specific test data are available. |
| <b>Other flammability</b>                           | No specific test data are available. |
| <b>Vapour pressure</b>                              | No specific test data are available. |
| <b>Vapour density</b>                               | No specific test data are available. |
| <b>Relative density</b>                             | Data lacking.                        |
| <b>Bulk density</b>                                 | ~ 0,896 @ 15°C g/ml                  |
| <b>Solubility(ies)</b>                              | Insoluble in water.                  |
| <b>Partition coefficient</b>                        | No specific test data are available. |
| <b>Auto-ignition temperature</b>                    | No specific test data are available. |
| <b>Decomposition Temperature</b>                    | No specific test data are available. |
| <b>Viscosity</b>                                    | 198-242 cSt @ 40°C                   |
| <b>Explosive properties</b>                         | No information available.            |
| <b>Explosive under the influence of a flame</b>     | Not known.                           |
| <b>Oxidising properties</b>                         | Not known.                           |
| <b>Comments</b>                                     | No other information known.          |
| <b>Particle characteristic</b>                      | Not applicable.                      |



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### 9.2. Other information

|                           |                             |
|---------------------------|-----------------------------|
| Other information         | No other information known. |
| Refractive index          | No other information known. |
| Particle size             | No other information known. |
| Molecular weight          | No other information known. |
| Volatility                | No other information known. |
| Saturation concentration  | No other information known. |
| Critical temperature      | No other information known. |
| Volatile organic compound | No other information known. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                                                 |
|------------|-------------------------------------------------|
| Reactivity | This product is stable under normal conditions. |
|------------|-------------------------------------------------|

### 10.2. Chemical stability

|           |                                        |
|-----------|----------------------------------------|
| Stability | Stable at normal ambient temperatures. |
|-----------|----------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| Possibility of hazardous reactions | No hazardous reaction under normal conditions of storage and use. |
|------------------------------------|-------------------------------------------------------------------|

### 10.4. Conditions to avoid

|                     |                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------|
| Conditions to avoid | Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidising agents. |
|---------------------|-------------------------------------------------------------------------------------------------|

### 10.5. Incompatible materials

|                    |                          |
|--------------------|--------------------------|
| Materials to avoid | Strong oxidising agents. |
|--------------------|--------------------------|

### 10.6. Hazardous decomposition products

|                                  |                                                                                                                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous decomposition products | Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Oxides of nitrogen. Sulfur oxides. Phosphor oxides.<br>Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, irritating vapors and other products of incomplete combustion. |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Other health effects           | Based on available data the classification criteria are not met. |
| Toxicological effects          | Based on available data the classification criteria are not met. |
| Acute toxicity - oral          |                                                                  |
| Summary                        | Based on available data the classification criteria are not met. |
| Notes (oral LD <sub>50</sub> ) | Based on available data the classification criteria are not met. |
| Acute toxicity - dermal        |                                                                  |
| Summary                        | Based on available data the classification criteria are not met. |



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|                                           |                                                                  |
|-------------------------------------------|------------------------------------------------------------------|
| <b>Notes (dermal LD<sub>50</sub>)</b>     | Based on available data the classification criteria are not met. |
| <b>ATE dermal (mg/kg)</b>                 | 300,000.0                                                        |
| <b>Acute toxicity - inhalation</b>        |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Notes (inhalation LC<sub>50</sub>)</b> | Based on available data the classification criteria are not met. |
| <b>ATE inhalation (vapours mg/l)</b>      | 500.0                                                            |
| <b>Skin corrosion/irritation</b>          |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Skin corrosion/irritation</b>          | Based on available data the classification criteria are not met. |
| <b>Animal data</b>                        | Based on available data the classification criteria are not met. |
| <b>Human skin model test</b>              | Based on available data the classification criteria are not met. |
| <b>Extreme pH</b>                         | Based on available data the classification criteria are not met. |
| <b>Serious eye damage/irritation</b>      |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Serious eye damage/irritation</b>      | Based on available data the classification criteria are not met. |
| <b>Respiratory sensitisation</b>          |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Respiratory sensitisation</b>          | Based on available data the classification criteria are not met. |
| <b>Skin sensitisation</b>                 |                                                                  |
| <b>Summary</b>                            | Skin Sens. = Skin sensitisation                                  |
| <b>Skin sensitisation</b>                 | Sensitising. Supplier's information.                             |
| <b>Germ cell mutagenicity</b>             |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Genotoxicity - in vitro</b>            | Based on available data the classification criteria are not met. |
| <b>Genotoxicity - in vivo</b>             | Based on available data the classification criteria are not met. |
| <b>Carcinogenicity</b>                    |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Carcinogenicity</b>                    | Based on available data the classification criteria are not met. |
| <b>Target organ for carcinogenicity</b>   | No specific target organs known.                                 |
| <b>IARC carcinogenicity</b>               | Not listed.                                                      |
| <b>NTP carcinogenicity</b>                | Not listed.                                                      |
| <b>Reproductive toxicity</b>              |                                                                  |
| <b>Summary</b>                            | Based on available data the classification criteria are not met. |
| <b>Reproductive toxicity - fertility</b>  | Based on available data the classification criteria are not met. |



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|                                                           |                                                                                                                                                |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive toxicity - development</b>                | Based on available data the classification criteria are not met.                                                                               |
| <b>Specific target organ toxicity - single exposure</b>   |                                                                                                                                                |
| Summary                                                   | Based on available data the classification criteria are not met.                                                                               |
| STOT - single exposure                                    | Based on available data the classification criteria are not met.                                                                               |
| Target organs                                             | No specific target organs known.                                                                                                               |
| <b>Specific target organ toxicity - repeated exposure</b> |                                                                                                                                                |
| Summary                                                   | Based on available data the classification criteria are not met.                                                                               |
| STOT - repeated exposure                                  | Based on available data the classification criteria are not met.                                                                               |
| Target organs                                             | No specific target organs known.                                                                                                               |
| <b>Aspiration hazard</b>                                  |                                                                                                                                                |
| Summary                                                   | Based on available data the classification criteria are not met.                                                                               |
| Aspiration hazard                                         | Based on available data the classification criteria are not met.                                                                               |
| <b>Toxicokinetics</b>                                     | No other information known.                                                                                                                    |
| <b>General information</b>                                | No other information known.                                                                                                                    |
| <b>Inhalation</b>                                         | Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. |
| <b>Ingestion</b>                                          | May cause discomfort if swallowed.                                                                                                             |
| <b>Skin contact</b>                                       | Liquid may irritate skin.                                                                                                                      |
| <b>Eye contact</b>                                        | May cause temporary eye irritation.                                                                                                            |
| <b>Acute and chronic health hazards</b>                   | No other information known.                                                                                                                    |
| <b>Route of exposure</b>                                  | No other information known.                                                                                                                    |
| <b>Target organs</b>                                      | No specific target organs known.                                                                                                               |
| <b>Medical symptoms</b>                                   | No other information known.                                                                                                                    |
| <b>Medical considerations</b>                             | No other information known.                                                                                                                    |

### 11.2 Information on other hazards

**Information on other hazards** This product does not have endocrine disrupting properties.

**Toxicological information on ingredients.**

#### Highly refined mineral oil

**Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral,

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal,

**Distillates (petroleum), hydrotreated heavy paraffinic**



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### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral,

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal,

### Carcinogenicity

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

### Distillates (petroleum), hydrotreated heavy naphthenic

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit

### Acute toxicity - inhalation

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** LC50 >5.53 mg/l, Inhalation, Rat

**ATE inhalation (dusts/mists mg/l)** 5.53

### Skin corrosion/irritation

**Summary** Not irritating. Supplier's information.

### Serious eye damage/irritation

**Summary** Not irritating. Supplier's information.

### Skin sensitisation

**Summary** Not sensitising. Supplier's information.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene mutation: Negative. Supplier's information.

**Genotoxicity - in vivo** Micronucleus Test: Negative. Supplier's information.

### Carcinogenicity

**Summary** Based on available data the classification criteria are not met. Supplier's information.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met. Supplier's information.

**Reproductive toxicity - development** Based on available data the classification criteria are not met. Supplier's information.

### Phosphoric acid, mono- and bis(branched and linear pentyl) esters

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Gene mutation: Negative. Micronucleus Test: Negative.

### Reproductive toxicity

**Reproductive toxicity - fertility** Negative. Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test - NOAEL 300 mg/kg, Oral, Rat

**Reproductive toxicity - development** Negative. Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test - NOAEL: 300 mg/kg, Oral, Rat

### Exchangeable neutral oils

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

### Amines, C10-14-tert-alkyl

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 612 mg/kg, Oral, Rat

#### ATE oral (mg/kg)

500.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 251 mg/kg, Dermal, Rat Repeated Dose: NOAEL 20 mg/kg, Dermal, Rat

#### ATE dermal (mg/kg)

300.0

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC50 1,19 mg/l, Inhalation, Rat Repeated Dose: NOAEL 19 mg/m<sup>3</sup>, Inhalation, Rat

**ATE inhalation (vapours mg/l)** 0.5

#### Skin corrosion/irritation

**Skin corrosion/irritation** Rabbit: Skin-Visible necrosis.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Rabbit: Eyes- Visible necrosis.

#### Skin sensitisation

**Skin sensitisation** Guinea pig Skin Sens. = Skin sensitisation

### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Gene mutation: Negative.

### Reproductive toxicity

**Reproductive toxicity - fertility** One-generation study, Fertility - Negative , Oral, Rat

**Reproductive toxicity - development** One-generation study, Fertility - : Negative , Oral, Rat One-generation study, Maternal toxicity: - : Positive , Oral, Rat



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >10000 mg/kg, Oral, Rat

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> >2,75 mg/l, Inhalation, Rat

#### Skin corrosion/irritation

Skin corrosion/irritation Moderately irritating. Rabbit Supplier's information.

#### Skin sensitisation

Summary Not sensitising. Supplier's information.

#### Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Supplier's information.

### C16-18-(even numbered, saturated and unsaturated)- alkylamines

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 1689 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

#### Skin corrosion/irritation

Summary Rabbit: Skin-Visible necrosis.

#### Germ cell mutagenicity

Genotoxicity - in vitro : Negative.

#### Reproductive toxicity

Reproductive toxicity - fertility - Negative , Oral, Rat

Reproductive toxicity - development Maternal toxicity: - : Positive , Oral, Rat Developmental toxicity: - : Negative , Oral, Rat

#### Aspiration hazard

Summary Aspiration Hazard

### Fuelsi diesel

#### Carcinogenicity

Carcinogenicity Known or suspected carcinogen for humans.

## SECTION 12: Ecological information

Ecotoxicity Aquatic Chronic = Hazardous to the aquatic environment (chronic) Aquatic Chronic 3 - H412

Ecological information on ingredients.



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### 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

**Toxicity** Harmful to aquatic life with long lasting effects.

#### Acute aquatic toxicity

**Summary** No other information known.

**Acute toxicity - fish** No other information known.

**Acute toxicity - aquatic invertebrates** No other information known.

**Acute toxicity - aquatic plants** No other information known.

**Acute toxicity - microorganisms** No other information known.

**Acute toxicity - terrestrial** No other information known.

#### Chronic aquatic toxicity

**Summary** No other information known.

**Chronic toxicity - fish early life stage** No other information known.

**Short term toxicity - embryo and sac fry stages** No other information known.

**Chronic toxicity - aquatic invertebrates** No other information known.

**Toxicity to soil** No other information known.

**Toxicity to terrestrial plants** No other information known.

**Ecological information on ingredients.**

### Distillates (petroleum), hydrotreated heavy naphthenic

#### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EL50, 48 hour: >1000 mg/l, Daphnia magna

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEL, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEL, 72 hour: >100 mg/l, Alg  
NOEL, 21 day: 10 mg/l, Daphnia magna

### Phosphoric acid, mono- and bis(branched and linear pentyl) esters

#### Acute aquatic toxicity



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

|                                          |                                                                            |
|------------------------------------------|----------------------------------------------------------------------------|
| Acute toxicity - fish                    | LL <sub>50</sub> , 96 hour: >100 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates   | EC <sub>50</sub> , 48 hour: 56 mg/l, Daphnia magna                         |
| Acute toxicity - aquatic plants          | EL50, 72 hour: >100 mg/l, Pseudokirchneriella subcapitata                  |
| Acute toxicity - microorganisms          | EC <sub>50</sub> , 3 hour: >1000 mg/l, Micro-organisms                     |
| Chronic aquatic toxicity                 |                                                                            |
| Chronic toxicity - aquatic invertebrates | EL10, 72 hour: 24 mg/l, Alg                                                |

### Amines, C10-14-tert-alkyl

|                                          |                                                                             |
|------------------------------------------|-----------------------------------------------------------------------------|
| Acute aquatic toxicity                   |                                                                             |
| LE(C) <sub>50</sub>                      | 0.1 < L(E)C50 ≤ 1                                                           |
| M factor (Acute)                         | 1                                                                           |
| Acute toxicity - fish                    | LL <sub>50</sub> , 96 hours: 63,5 mg/l, Oncorhynchus mykiss (Rainbow trout) |
| Acute toxicity - aquatic invertebrates   | EL50, 48 hour: 2,5 mg/l, Daphnia magna                                      |
| Acute toxicity - aquatic plants          | EL50, 72 hour: 0,44 mg/l, Pseudokirchneriella subcapitata                   |
| Acute toxicity - microorganisms          | EL50, 30 minutes: 63,5 mg/l, Micro-organisms                                |
| Chronic aquatic toxicity                 |                                                                             |
| M factor (Chronic)                       | 1                                                                           |
| Chronic toxicity - fish early life stage | NOEC, 96 day: 0,078 mg/l, Oncorhynchus mykiss (Rainbow trout)               |
| Chronic toxicity - aquatic invertebrates | NOEL, 72 hours: 0,05 mg/l, Alg                                              |

### 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Acute aquatic toxicity                 |                                                    |
| Acute toxicity - aquatic invertebrates | EC <sub>50</sub> , 48 hour: 41 mg/l, Daphnia magna |

### C16-18-(even numbered, saturated and unsaturated)- alkylamines

|                                        |                                                                              |
|----------------------------------------|------------------------------------------------------------------------------|
| Acute aquatic toxicity                 |                                                                              |
| LE(C) <sub>50</sub>                    | 0.01 < L(E)C50 ≤ 0.1                                                         |
| M factor (Acute)                       | 10                                                                           |
| Acute toxicity - fish                  | LL <sub>50</sub> , 96 hour: 0,06 mg/l, Pimephales promelas (Fat-head Minnow) |
| Acute toxicity - aquatic invertebrates | EL50, 48 hour: 0,011 mg/l, Daphnia magna                                     |



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| <b>Acute toxicity - aquatic plants</b>          | EL50, 96 hour: 0,04 mg/l, Algae                                          |
| <b>Acute toxicity - microorganisms</b>          | EL50, 3 hour: 222,5 mg/l, Micro-organisms                                |
| <b>Chronic aquatic toxicity</b>                 |                                                                          |
| <b>M factor (Chronic)</b>                       | 10                                                                       |
| <b>Chronic toxicity - aquatic invertebrates</b> | NOEL, 21 day: 0,013 mg/l, Daphnia magna<br>NOEL, 96 hour: 0,01 mg/l, Alg |

### 12.2. Persistence and degradability

|                                      |                             |
|--------------------------------------|-----------------------------|
| <b>Persistence and degradability</b> | No other information known. |
| <b>Phototransformation</b>           | No other information known. |
| <b>Stability (hydrolysis)</b>        | No other information known. |
| <b>Biodegradation</b>                | No other information known. |
| <b>Biological oxygen demand</b>      | No other information known. |
| <b>Chemical oxygen demand</b>        | No other information known. |

### Ecological information on ingredients.

#### **Distillates (petroleum), hydrotreated heavy paraffinic**

|                       |                                           |
|-----------------------|-------------------------------------------|
| <b>Biodegradation</b> | Not expected to be readily biodegradable. |
|-----------------------|-------------------------------------------|

#### **Distillates (petroleum), hydrotreated heavy naphthenic**

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>Biodegradation</b> | Manometric Respirometry Test - Degradation 31 %: 28 day, OECD TG 301 F |
|-----------------------|------------------------------------------------------------------------|

#### **Phosphoric acid, mono- and bis(branched and linear pentyl) esters**

|                       |                                                       |
|-----------------------|-------------------------------------------------------|
| <b>Biodegradation</b> | Carbon dioxide formation - 45 %: 28 day, OECD TG 301B |
|-----------------------|-------------------------------------------------------|

#### **Amines, C10-14-tert-alkyl**

|                       |                                                               |
|-----------------------|---------------------------------------------------------------|
| <b>Biodegradation</b> | Closed Bottle Test - Degradation 21,8%: 28 day, OECD TG 301 D |
|-----------------------|---------------------------------------------------------------|

#### **C16-18-(even numbered, saturated and unsaturated)- alkylamines**

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| <b>Biodegradation</b> | Carbon dioxide formation - Degradation 66 %: 28 day, OECD TG 301B |
|-----------------------|-------------------------------------------------------------------|

### 12.3. Bioaccumulative potential

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <b>Bioaccumulative potential</b> | No other information known.          |
| <b>Partition coefficient</b>     | No specific test data are available. |

### Ecological information on ingredients.

#### **Distillates (petroleum), hydrotreated heavy paraffinic**

|                                  |                              |
|----------------------------------|------------------------------|
| <b>Bioaccumulative potential</b> | Potentially bioaccumulating. |
|----------------------------------|------------------------------|



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### Amines, C10-14-tert-alkyl

**Bioaccumulative potential** log Pow: 2,9,

#### 12.4. Mobility in soil

**Mobility** The product is immiscible with water and will spread on the water surface.

**Adsorption/desorption coefficient** No other information known.

**Henry's law constant** No other information known.

**Surface tension** No other information known.

**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** Not applicable.

#### 12.6 Endocrine disrupting properties

**Endocrine disrupting properties** This product does not have endocrine disrupting properties.

**Ecological information on ingredients.**

### Fuels diesel

**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** Not applicable.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

**Waste class** The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### UN number or ID 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

No.

### 14.6. Special precautions for user

Not applicable.

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

Maritime transport in bulk  
according to IMO instruments

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

<https://echa.europa.eu>  
Commission Regulation (EU) No 453/2010 of 20 May 2010.

#### Guidance

Safety Data Sheets for Substances and Preparations.

#### Health and environmental listings

Hazardous ingredients are listed.

.

### 15.2. Chemical safety assessment

Not applicable.

## SECTION 16: Other information



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### Abbreviations and acronyms used in the safety data sheet

T.C. : Republic of Turkey  
DMSO: Dimethyl sulfoxide  
KKE: Personal protective equipment  
E.U. : European union  
UZEM: National Poison Information Center  
DNEL: Derived No Effect Level.  
CAS: Chemical Abstracts Service.  
Kow: Octanol-water partition coefficient.  
LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
PBT: Persistent, Bioaccumulative and Toxic substance.  
vPvB: Very Persistent and Very Bioaccumulative.  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

### Classification abbreviations and acronyms

Skin Sens. = Skin sensitisation  
Aquatic Chronic = Hazardous to the aquatic environment (chronic)  
Asp. Tox. = Aspiration hazard  
Acute Tox. = Acute toxicity  
Skin Corr. = Skin corrosion  
Eye Dam. = Serious eye damage  
STOT SE = Specific target organ toxicity-single exposure  
Aquatic Acute = Hazardous to the aquatic environment (acute)  
STOT RE = Specific target organ toxicity-repeated exposure

### 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.

### 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

Skin Sens. 1 - H317: Calculation method., Supplier information Aquatic Chronic 3 - H412: Calculation method., Supplier information

### Training advice

Untrained personnel should not use.

### Revision comments

Revised classification.

### Issued by

Ece Korkut Safety and Data Sheet Specialist (Certificate No: GBF01.54.04 26.06.2024)

### Revision date

07/02/2024

### Revision

5

### Supersedes date

17/06/2011

### SDS number

10038



## GRAVIS M 220

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

### Hazard statements in full

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H330 Fatal if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer if swallowed.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if inhaled.

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.