

# 22057 HYPOID-GETRIEBEOEL (GL5) SAE 80W 205 L

### Liqui Moly GmbH

Chemwatch Hazard Alert Code: 0

Issue Date: **01/11/2019** Print Date: **01/04/2020** S.GHS.USA.EN

Chemwatch: **74-1330**Version No: **3.1.1.1**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

# **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

| Product name                  | 22057 HYPOID-GETRIEBEOEL (GL5) SAE 80W 205 L |  |
|-------------------------------|--|--|
| Synonyms                      | Product code: 20759                          |  |
| Other means of identification | Not Available                                |  |

#### Recommended use of the chemical and restrictions on use

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

| Registered company name | Liqui Moly GmbH                            |  |
|-------------------------|--|--|
| Address                 | Jerg-Wieland-Strasse 4 Ulm D-89081 Germany |  |
| Telephone               | +49 731 1420 0                             |  |
| Fax                     | +49 731 1420 82                            |  |
| Website                 | http://www.liqui-moly.com/                 |  |
| Email                   | Not Available                              |  |

### **Emergency phone number**

| Association / Organisation        | INFOTRAC                             |  |
|-----------------------------------|--------------------------------------|--|
| Emergency telephone numbers       | +1800 535 5053 (US, Canada & Mexico) |  |
| Other emergency telephone numbers | +1 352 323 3500 (International)      |  |

#### **SECTION 2 HAZARD(S) IDENTIFICATION**

# Classification of the substance or mixture

#### CHEMWATCH HAZARD RATINGS

|              | Mi | n | Max |   |
|--------------|----|---|-----|---|
| Flammability | 0  |   |     |   |
| Toxicity     | 0  |   |     |   |
| Body Contact | 0  |   |     |   |
| Reactivity   | 0  |   |     | 0 = Minimum<br>1 = Low                  |
| Chronic      | 0  |   |     | 2 = Moderate<br>3 = High<br>4 = Extreme |

# NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification | Serious Eye Damage Category 1, Skin Sensitizer Category 1, Chronic Aquatic Hazard Category 2

# Label elements

# Hazard pictogram(s)







SIGNAL WORD | DANGER

# Hazard statement(s)

| H318 | Causes serious eye damage.                       |
|------|--|
| H317 | May cause an allergic skin reaction.             |
| H411 | Toxic to aquatic life with long lasting effects. |

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Not Applicable

#### Precautionary statement(s) Prevention

| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |  |
|------|--|--|
| P261 | void breathing mist/vapours/spray.   |  |
| P273 | Avoid release to the environment.  |  |
| P272 | Contaminated work clothing should not be allowed out of the workplace.     |  |

#### Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
|----------------|--|--|
| P310           | Immediately call a POISON CENTER or doctor/physician.  |  |
| P321           | Specific treatment (see advice on this label).   |  |
| P363           | Wash contaminated clothing before reuse.   |  |

#### Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

| CAS No        | %[weight] | Name  |  |
|---------------|-----------|---|--|
| Not Available | 1-<2.5    | bis(2-methylpentan-2-yl)dithiophosphoric acid/ amines |  |
| 112-90-3      | 0.25-<1   | oleyl amine   |  |
| Not Available | NotSpec   | mineral oil   |  |

# **SECTION 4 FIRST-AID MEASURES**

#### Description of first aid measures

| •            |  |  |
|--------------|--|--|
| Eye Contact  | If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |  |
| Skin Contact | If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.   |  |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>  |  |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |  |

# Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

### **SECTION 5 FIRE-FIGHTING MEASURES**

# Extinguishing media

- ► Foam.
- ► Dry chemical powder.
- ► BCF (where regulations permit).
- ► Carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

# Special protective equipment and precautions for fire-fighters

Fire Fighting

- ► Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- ► Use water delivered as a fine spray to control fire and cool adjacent area.

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Fire/Explosion Hazard

- Combustible.
- ► Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers.
- ► On combustion, may emit irritating/ toxic fumes.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

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

See section 8

#### **Environmental precautions**

See section 12

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

| Minor Spills | <ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul> |
|--------------|--|
| Major Spills | Moderate hazard.  ► Clear area of personnel and move upwind.  ► Alert Fire Brigade and tell them location and nature of hazard.  ► Wear breathing apparatus plus protective gloves.  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

| Safe handling     | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul> |
|-------------------|--|
| Other information | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> </ul>                            |

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

| Suitable container      | <ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
|-------------------------|--|
| Storage incompatibility | None known   |

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

# INGREDIENT DATA

| Source   | Ingredient  | Material name  | TWA        | STEL             | Peak             | Notes            |
|--|-------------|--|------------|------------------|------------------|------------------|
| US NIOSH Recommended<br>Exposure Limits (RELs)           | mineral oil | Heavy mineral oil mist, Paraffin oil mist, White mineral oil mist  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not<br>Available |
| US OSHA Permissible Exposure<br>Levels (PELs) - Table Z1 | mineral oil | Oil mist, mineral  | 5<br>mg/m3 | Not<br>Available | Not<br>Available | Not<br>Available |
| US ACGIH Threshold Limit<br>Values (TLV)                 | mineral oil | Mineral oil, excluding metal working fluids - Pure, highly and severely refined (Inhalable particulate matter) | 5<br>mg/m3 | Not<br>Available | Not<br>Available | URT irr          |

# EMERGENCY LIMITS

| Ingredient  | Material name  | TEEL-1       | TEEL-2         | TEEL-3         |
|-------------|--|--------------|----------------|----------------|
| mineral oil | Mineral oil, heavy or light; (paraffin oil; Deobase, deodorized; heavy paraffinic; heavy naphthenic); distillates; includes 64741-53-3, 64741-88-4, 8042-47-5, 8012-95-1; 64742-54-7 | 140<br>mg/m3 | 1,500<br>mg/m3 | 8,900<br>mg/m3 |

| Ingredient   | Original IDLH | Revised IDLH  |
|--|---------------|---------------|
| bis(2-methylpentan-<br>2-yl)dithiophosphoric acid/<br>amines | Not Available | Not Available |
| oleyl amine  | Not Available | Not Available |
| mineral oil  | 2,500 mg/m3   | Not Available |

#### OCCUPATIONAL EXPOSURE BANDING

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|------------|-----------------------------------|----------------------------------|

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| bis(2-methylpentan-<br>2-yl)dithiophosphoric acid/<br>amines | E   | ≤ 0.01 mg/m³   |
|--|---|--|
| oleyl amine  | E   | ≤ 0.1 ppm  |
| Notes:   | Occupational exposure banding is a process of assigning chemicals into adverse health outcomes associated with exposure. The output of this program of exposure concentrations that are expected to protect worker hear | ocess is an occupational exposure band (OEB), which corresponds to a |

#### **Exposure controls**

#### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### Personal protection









Eye and face protection

- ► Safety glasses with side shields
  - Chemical goggles.
  - ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

#### Skin protection

See Hand protection below

# Hands/feet protection

Wear general protective gloves, eg. light weight rubber gloves.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

**Body protection** 

See Other protection below

No special equipment needed when handling small quantities. OTHERWISE:

Personal hygiene is a key element of effective hand care.

# Other protection

- Overalls.
- Barrier cream.
- Eyewash unit.

#### Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator   |
|------------------------------------|----------------------|----------------------|--------------------------|
| up to 10 x ES                      | AK-AUS P2            | -                    | AK-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | AK-AUS / Class 1 P2  | -                        |
| up to 100 x ES                     | -                    | AK-2 P2              | AK-PAPR-2 P2 ^           |

<sup>^ -</sup> Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

| Appearance                                   | Brown colour liquid with characteristic odour; not miscible with water. |   |                |
|--|---|---|----------------|
| Physical state                               | Liquid  | Relative density (Water = 1)            | 0.9-0.91       |
| Odour  | Not Available   | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available   | Auto-ignition temperature (°C)          | Not Available  |
| pH (as supplied)                             | Not Applicable  | Decomposition temperature               | Not Available  |
| Melting point / freezing point (°C)          | Not Available   | Viscosity (cSt)                         | 98-400         |
| Initial boiling point and boiling range (°C) | Not Available   | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | 204-222   | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available   | Explosive properties                    | Not Available  |
| Flammability                                 | Not Applicable  | Oxidising properties                    | Not Available  |
| Upper Explosive Limit (%)                    | Not Available   | Surface Tension (dyn/cm or mN/m)        | Not Available  |

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|                           | f .           |                           | 1             |
|---------------------------|---------------|---------------------------|---------------|
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa)     | Not Available | Gas group                 | Not Available |
| Solubility in water       | Immiscible    | pH as a solution (1%)     | Not Available |
| Vapour density (Air = 1)  | Not Available | VOC g/L                   | Not Available |

#### **SECTION 10 STABILITY AND REACTIVITY**

| Reactivity                         | See section 7   |
|------------------------------------|---|
| Chemical stability                 | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7   |
| Conditions to avoid                | See section 7   |
| Incompatible materials             | See section 7   |
| Hazardous decomposition products   | See section 5   |

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

#### Information on toxicological effects

| illioilliation on toxicological el              | 10013   |                           |  |
|---|---|---------------------------|--|
| Inhaled   | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |                           |  |
| Ingestion                                       | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  |                           |  |
| Skin Contact                                    | The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.   |                           |  |
| Eye   | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).  |                           |  |
| Chronic   | Chronic Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using anima models); nevertheless exposure by all routes should be minimised as a matter of course.   |                           |  |
| 22057 HYPOID-GETRIEBEOEL<br>(GL5) SAE 80W 205 L | TOXICITY  Not Available   | IRRITATION  Not Available |  |
| hia/2 mathylmantan                              |   |                           |  |

| (GL5) SAE 80W 205 L  | Not Available  | Not Available   |  |
|--|--|---|--|
| bis(2-methylpentan-<br>2-yl)dithiophosphoric acid/<br>amines | TOXICITY  Not Available  | IRRITATION  Not Available   |  |
| oleyl amine  | TOXICITY  Oral (rat) LD50: 1200 mg/kg <sup>[2]</sup>   | IRRITATION  Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin: adverse effect observed (corrosive) <sup>[1]</sup> Skin: adverse effect observed (irritating) <sup>[1]</sup> |  |
| mineral oil  | TOXICITY  Not Available  | IRRITATION  Not Available   |  |
| Legend:  | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise  propried data outgotted from PTECS. Periods of Toxic Effect of chamical Substances. |   |  |

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

#### **BIS(2-METHYLPENTAN-**2-YL)DITHIOPHOSPHORIC **ACID/ AMINES**

Thee rat oral LD50 is greater than 10 ml/kg bw. No mortality occurred. No signs of systemic toxicity, or behavioral changes were reported during the study, and no abnormalities were noted at necropsy. In a second study this substance shows evidence of toxicity when tested in accordance with OECD 401. The dermal route for acute toxicity is appropriate if the physicochemical properties suggest there is potential for a significant rate of absorption through the skin. The scientific literature regarding dermal toxicity states that for those substances with a log Kow greater than 5 there is very limited potential for dermal absorption (e.g., 10% absorption) (Annals of Occupatinoal Hygiene, 47(8):641-652, 2003). The test material has a Log Kow greater than 7.1 (small portion < 0.3) thereby demonstrating that it has very limited dermal absorption potential. In contrast, oral absorption can be relatively fast due to contact surface areas in the GI tract resulting in a peak concentration in the body, and GI tract has been regarded as the route resulting in higher bioavailability. Skin sensitisation: EC3 value was determined to be 9.39%. Per the CLP guidance, substances are to be classified as skin sensitization 1A when the EC3 value is less than 2% and are to be classified as skin sensitization 1B when the EC3 value is greater than 2%. Repeat dose toxicity: Oral administration of the test substance to rats by gavage in accordance with OECD Test Guideline 407 (1995) produces treatment related microscopic changes in the adrenal glands of the male and female rats and kidneys of the male rats of the 150 and 500 mg/kg/day groups. The adrenal gland changes are accompanied by an increase in adrenal weight only at the high doses level. The male kidney effects are accompanied by an increase in hyaline droplets which is consistent with male rat species specific effect resulting from the excessive accumulation of a2-microglobulin in renal proximal tubular epithelial cells. Microscopic changes also are present in the stomach of the male and female rats of the 500 mg/kg/day group and these changes were possibly treatment related. \* REACh Dossier

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. No significant acute toxicological data identified in literature search.

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Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.

FND ether amines and FND amines are very similar in structure (length of chain or degree of saturation), function and toxicity. Acute exposure to FND ether amines by oral, dermal and inhalation may produce moderate to slight toxicity but repeated skin contact can be highly irritating. However, exposure did not produce any organ-specific toxicity, genetic, reproductive or developmental defect same as in FND amines. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

#### **OLEYL AMINE**

The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Overexposure to most of these materials may cause adverse health effects.

Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually transient.

There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. Higher concentrations of certain amines can produce severe respiratory irritation, characterized by discharge from the nose, coughing, difficulty in breathing and chest pain. Chronic exposure via inhalation may cause headache, nausea, vomiting, drowsiness, sore throat, inflammation of the bronchi and lungs, and possible lung damage. Substance has been investigated as a reproductive effector in rodents.

#### MINERAL OIL

Toxicity and Irritation data for petroleum-based mineral oils are related to chemical components and vary as does the composition and source of the original crude.

A small but definite risk of occupational skin cancer occurs in workers exposed to persistent skin contamination by oils over a period of years. This risk has been attributed to the presence of certain polycyclic aromatic hydrocarbons (PAH) (typified by benz[a]pyrene). Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.

| Acute Toxicity                    | ×        | Carcinogenicity          | × |
|-----------------------------------|----------|--------------------------|---|
| Skin Irritation/Corrosion         | ×        | Reproductivity           | X |
| Serious Eye Damage/Irritation     | ✓        | STOT - Single Exposure   | X |
| Respiratory or Skin sensitisation | <b>✓</b> | STOT - Repeated Exposure | × |
| Mutagenicity                      | ×        | Aspiration Hazard        | × |

Legend:

Data either not available or does not fill the criteria for classification

- Data available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

| 22057 HYPOID-GETRIEBEOEL<br>(GL5) SAE 80W 205 L              | ENDPOINT  | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|--|---|--------------------|-------------------------------|------------------|------------------|
|  | Not<br>Available  | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
| bis(2-methylpentan-<br>2-yl)dithiophosphoric acid/<br>amines | ENDPOINT  | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|  | Not<br>Available  | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
| oleyl amine  | ENDPOINT  | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|  | LC50  | 96                 | Fish                          | 0.022mg/L        | 3                |
|  | EC50  | 96                 | Algae or other aquatic plants | 0.042mg/L        | 3                |
| mineral oil  | ENDPOINT  | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|  | Not<br>Available  | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
| Legend:  | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |                  |                  |

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

#### Persistence and degradability

| Ingredient  | Persistence: Water/Soil | Persistence: Air |
|-------------|-------------------------|------------------|
| oleyl amine | LOW                     | LOW              |

# **Bioaccumulative potential**

| Ingredient  | Bioaccumulation       |
|-------------|-----------------------|
| oleyl amine | LOW (LogKOW = 7.4952) |

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#### Mobility in soil

| Ingredient  | Mobility           |
|-------------|--------------------|
| oleyl amine | LOW (KOC = 319800) |

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ► Reuse
- ► Recycling
- Disposal (if all else fails)

#### Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
   In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- ▶ Bury residue in an authorised landfill.
- · Recycle containers if possible, or dispose of in an authorised landfill.

#### **SECTION 14 TRANSPORT INFORMATION**

#### **Labels Required**

**Marine Pollutant** 



Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

# **SECTION 15 REGULATORY INFORMATION**

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

BIS(2-METHYLPENTAN-2-YL)DITHIOPHOSPHORIC ACID/ AMINES IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

OLEYL AMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

MINERAL OIL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

# **Federal Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA)

# SECTION 311/312 HAZARD CATEGORIES

| Flammable (Gases, Aerosols, Liquids, or Solids) | No |
|---|----|
| Gas under pressure                              | No |
| Explosive                                       | No |
| Self-heating                                    | No |
| Pyrophoric (Liquid or Solid)                    | No |
| Pyrophoric Gas                                  | No |
| Corrosive to metal                              | No |
| Oxidizer (Liquid, Solid or Gas)                 | No |
| Organic Peroxide                                | No |
| Self-reactive                                   | No |
| In contact with water emits flammable gas       | No |

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#### 22057 HYPOID-GETRIEBEOEL (GL5) SAE 80W 205 L

Combustible Dust No Carcinogenicity No Acute toxicity (any route of exposure) No Reproductive toxicity No Skin Corrosion or Irritation No Respiratory or Skin Sensitization Yes Serious eye damage or eye irritation Yes Specific target organ toxicity (single or repeated exposure) No Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No

#### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

#### **State Regulations**

#### US. CALIFORNIA PROPOSITION 65

Hazards Not Otherwise Classified

None Reported

#### **National Inventory Status**

| National Inventory            | Status  |
|-------------------------------|---|
| Australia - AICS              | Yes   |
| Canada - DSL                  | Yes   |
| Canada - NDSL                 | No (oleyl amine)  |
| China - IECSC                 | Yes   |
| Europe - EINEC / ELINCS / NLP | Yes   |
| Japan - ENCS                  | Yes   |
| Korea - KECI                  | Yes   |
| New Zealand - NZIoC           | Yes   |
| Philippines - PICCS           | Yes   |
| USA - TSCA                    | Yes   |
| Taiwan - TCSI                 | Yes   |
| Mexico - INSQ                 | Yes   |
| Vietnam - NCI                 | Yes   |
| Russia - ARIPS                | Yes   |
| Legend:                       | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

# **SECTION 16 OTHER INFORMATION**

| Revision Date | 01/11/2019 |
|---------------|------------|
| Initial Date  | 19/01/2017 |

# **SDS Version Summary**

| Version | Issue Date | Sections Updated   |
|---------|------------|--|
| 3.1.1.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

No

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LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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