

# 20442, 20444, 22134, 22135, 22165 Special Tec B FE 5W-30 1L, 5L, 20L, 205L, 1000L Liqui Moly GmbH

Chemwatch Hazard Alert Code: 2

Chemwatch: 39-47202 Version No: 4.1.1.1

Safety Data Sheet according to WHMIS 2015 requirements

Issue Date: 01/11/2019 Print Date: 21/10/2020 S.GHS.CAN.EN

### **SECTION 1 Identification**

| Product Id | lentifier |
|------------|-----------|
|------------|-----------|

| Product name                  | 20442, 20444, 22134, 22135, 22165 Special Tec B FE 5W-30 1L, 5L, 20L, 205L, 1000L |
|-------------------------------|---|
| Synonyms                      | Not Available   |
| Other means of identification | Not Available   |

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

Relevant identified uses Use according to manufacturer's directions.

### 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

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)

### Canadian WHMIS Symbols



Classification Skin Sensitizer Category 1A

# Label elements

Hazard pictogram(s)



Signal word

Warning

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H317

May cause an allergic skin reaction.

### Physical and Health hazard(s) not otherwise classified

Not Applicable

### Precautionary statement(s) Prevention

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

### Precautionary statement(s) Response

| P321      | Specific treatment (see advice on this label).                   |
|-----------|--|
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap.                  |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it 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   |
|---------------|-----------|--|
| 72623-87-1.   | >50       | lubricating oils, petroleum C20-50, hydrotreated neutral   |
| 64742-54-7.   | 10-20     | paraffinic distillate, heavy, hydrotreated (severe)        |
| Not Available | 10-20     | mineral oil  |
| 68784-31-6    | 1-5       | zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate  |
| 722503-69-7   | <1        | methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium |

### **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 contact occurs:  Immediately remove all contaminated clothing, including footwear.  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>  |

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

**NOTE:** Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

# **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

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

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# Special protective equipment and precautions for fire-fighters

|        |                  | ,   |
|--------|------------------|---|
|        | Fire Fighting    | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>   |
| Fire/E | Explosion Hazard | <ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:         carbon dioxide (CO2)         phosphorus oxides (POx)         sulfur oxides (SOx)         other pyrolysis products typical of burning organic material.         May emit corrosive fumes.</li> <li>CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.         Foaming may cause overflow of containers and may result in possible fire.</li> </ul> |

### **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

| methods and material for containment and occurring up |   |  |
|---|---|--|
| Minor Spills  | Slippery when spilt.  Framove all ignition sources.  Clean up all spills immediately.  Avoid breathing vapours and contact with skin and eyes.  Control personal contact with the substance, by using protective equipment. |  |
| Major Spills  | Slippery when spilt.  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>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> <li>Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (&lt;=1 m/sec until fill pipe submerged to twice its diameter, then &lt;= 7 m/sec).</li> <li>Avoid splash filling.</li> <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> </ul> |
|--|--|
|  | Prevent concentration in hollows and sumps.  |
| 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

| 3. ,                    |  |  |
|-------------------------|--|--|
| 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 | CARE: Water in contact with heated material may cause foaming or a steam explosion with possible severe burns from wide scattering of hot material. Resultant overflow of containers may result in fire.  • Avoid reaction with oxidising agents |  |

# **SECTION 8 Exposure controls / personal protection**

# Control parameters

Occupational Exposure Limits (OEL)

# INGREDIENT DATA

| Source  | Ingredient   | Material name     | TWA        | STEL     | Peak             | Notes         |
|---|--|-------------------|------------|----------|------------------|---------------|
| Canada - Yukon Permissible<br>Concentrations for Airborne<br>Contaminant Substances | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Oil mist, mineral | 5<br>mg/m3 | 10 mg/m3 | Not<br>Available | Not Available |

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| Source   | Ingredient   | Material name   | TWA        | STEL             | Peak             | Notes  |
|--|--|---|------------|------------------|------------------|--|
| Canada - Nova Scotia<br>Occupational Exposure Limits   | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Oil mist - mineral  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | TLV Basis: lung. As sampled by method that does not collect vapor. |
| Canada - Alberta Occupational<br>Exposure Limits   | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Saskatchewan<br>Occupational Health and Safety<br>Regulations - Contamination<br>Limits | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Manitoba<br>Occupational Exposure Limits  | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Not Available   | 5<br>mg/m3 | Not<br>Available | Not<br>Available | TLV® Basis: URT irr  |
| Canada - British Columbia<br>Occupational Exposure Limits  | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Oil mist - mineral, severely refined  | 1<br>mg/m3 | Not<br>Available | Not<br>Available | Not Available  |
| Canada - Prince Edward Island<br>Occupational Exposure Limits                                    | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Mineral oil, excluding metal<br>working fluids - Pure, highly and<br>severely refined | 5<br>mg/m3 | Not<br>Available | Not<br>Available | TLV® Basis: URT irr  |
| Canada - Northwest Territories<br>Occupational Exposure Limits                                   | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Quebec Permissible<br>Exposure Values for Airborne<br>Contaminants                      | lubricating oils, petroleum<br>C20-50, hydrotreated<br>neutral | Mineral oil (mist)  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Yukon Permissible<br>Concentrations for Airborne<br>Contaminant Substances              | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Nova Scotia<br>Occupational Exposure Limits   | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Oil mist - mineral  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | TLV Basis: lung. As sampled by method that does not collect vapor. |
| Canada - Alberta Occupational<br>Exposure Limits   | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Saskatchewan<br>Occupational Health and Safety<br>Regulations - Contamination<br>Limits | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Manitoba<br>Occupational Exposure Limits  | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Not Available   | 5<br>mg/m3 | Not<br>Available | Not<br>Available | TLV® Basis: URT irr  |
| Canada - British Columbia<br>Occupational Exposure Limits  | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Oil mist - mineral, severely refined  | 1<br>mg/m3 | Not<br>Available | Not<br>Available | Not Available  |
| Canada - Prince Edward Island<br>Occupational Exposure Limits                                    | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Mineral oil, excluding metal<br>working fluids - Pure, highly and<br>severely refined | 5<br>mg/m3 | Not<br>Available | Not<br>Available | TLV® Basis: URT irr  |
| Canada - Northwest Territories<br>Occupational Exposure Limits                                   | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Quebec Permissible<br>Exposure Values for Airborne<br>Contaminants                      | paraffinic distillate, heavy,<br>hydrotreated (severe)         | Mineral oil (mist)  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Yukon Permissible<br>Concentrations for Airborne<br>Contaminant Substances              | mineral oil  | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Nova Scotia<br>Occupational Exposure Limits   | mineral oil  | Oil mist - mineral  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | TLV Basis: lung. As sampled by method that does not collect vapor. |
| Canada - Alberta Occupational<br>Exposure Limits   | mineral oil  | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Saskatchewan<br>Occupational Health and Safety<br>Regulations - Contamination<br>Limits | mineral oil  | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Manitoba<br>Occupational Exposure Limits  | mineral oil  | Not Available   | 5<br>mg/m3 | Not<br>Available | Not<br>Available | TLV® Basis: URT irr  |
| Canada - British Columbia<br>Occupational Exposure Limits  | mineral oil  | Oil mist - mineral, severely refined  | 1<br>mg/m3 | Not<br>Available | Not<br>Available | Not Available  |
| Canada - Prince Edward Island<br>Occupational Exposure Limits                                    | mineral oil  | Mineral oil, excluding metal<br>working fluids - Pure, highly and<br>severely refined | 5<br>mg/m3 | Not<br>Available | Not<br>Available | TLV® Basis: URT irr  |
| Canada - Northwest Territories<br>Occupational Exposure Limits                                   | mineral oil  | Oil mist, mineral   | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |
| Canada - Quebec Permissible<br>Exposure Values for Airborne<br>Contaminants                      | mineral oil  | Mineral oil (mist)  | 5<br>mg/m3 | 10 mg/m3         | Not<br>Available | Not Available  |

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### Emergency Limits

| Ingredient                    | Material name  | TEEL-1       | TEEL-2         | TEEL-3         |
|-------------------------------|--|--------------|----------------|----------------|
| lubricating oils, petroleum   | 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          | 1,500          | 8,900          |
| C20-50, hydrotreated neutral  |  | mg/m3        | mg/m3          | mg/m3          |
| paraffinic distillate, heavy, | 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          | 1,500          | 8,900          |
| hydrotreated (severe)         |  | mg/m3        | mg/m3          | mg/m3          |
| 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  |
|---|---------------|---------------|
| lubricating oils, petroleum<br>C20-50, hydrotreated neutral       | 2,500 mg/m3   | Not Available |
| paraffinic distillate, heavy, hydrotreated (severe)               | 2,500 mg/m3   | Not Available |
| mineral oil   | 2,500 mg/m3   | Not Available |
| zinc bis(sec-butyl and<br>1,3-dimethylbutyl)<br>dithiophosphate   | Not Available | Not Available |
| methyl-C20-26-<br>alkylbenzenesulfonic acid,<br>branched, calcium | Not Available | Not Available |

### Occupational Exposure Banding

| Ingredient  | Occupational Exposure Band Rating  | Occupational Exposure Band Limit |
|---|--|----------------------------------|
| methyl-C20-26-<br>alkylbenzenesulfonic acid,<br>branched, calcium | E  | ≤ 0.01 mg/m³                     |
| Notes:  | Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro- |                                  |

### **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







range of exposure concentrations that are expected to protect worker health.



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.

### Skin protection

### See Hand protection below

- ► Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

# NOTE:

The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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.

Personal hygiene is a key element of effective hand care.

# Body protection

Hands/feet protection

See Other protection below

• Overalls

### Other protection

P.V.C apron.

- ► Barrier cream.
- Skin cleansing cream.

### Respiratory protection

Type A-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                      | A-AUS P2             | -                    | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | A-AUS / Class 1 P2   | -                       |

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up to 100 x ES A-2 P2 A-PAPR-2 P2 ^

^ - 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)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

# **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)            | 0.86                     |
| 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)          | -39                                     | Viscosity (cSt)                         | 63.1 @ 40C. 10.63 @ 100C |
| Initial boiling point and boiling range (°C) | Not Available                           | Molecular weight (g/mol)                | Not Applicable           |
| Flash point (°C)                             | 230                                     | 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            |
| 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                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 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

| 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.  Inhalation hazard is increased at higher temperatures.  Not normally a hazard due to non-volatile nature of product Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.   |
|--------------|--|
| 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.  Open cuts, abraded or irritated skin should not be exposed to this material  The material may accentuate any pre-existing dermatitis condition  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| 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      | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.  |

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| 20442, 20444, 22134, 22135,  | TOXICITY  | IRRITATION   |
|--|---|--|
| 22165 Special Tec B FE 5W-30   | Not Available   | Not Available  |
| 1L, 5L, 20L, 205L, 1000L   |   |  |
| lubricating oils, petroleum  | TOXICITY  | IRRITATION   |
| C20-50, hydrotreated neutral   | Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>   | Eye: no adverse effect observed (not irritating)[1]  |
|  |   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>   |
|  | тохісіту  | IRRITATION   |
| paraffinic distillate, heavy,<br>hydrotreated (severe)   | Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>   | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
| ,  | Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>   | Skin: no adverse effect observed (not irritating) $[1]$  |
|  | TOXICITY  | IRRITATION   |
| mineral oil  | Not Available   | Not Available  |
|  | TOVICITY  | IDDITATION   |
| zinc bis(sec-butyl and   | TOXICITY  Out (ref)   DEG: 0000 reg/(ref)   | IRRITATION   |
| 1,3-dimethylbutyl)<br>dithiophosphate  | Oral (rat) LD50: 2900 mg/kg <sup>[1]</sup>  | Eye: adverse effect observed (irritating) <sup>[1]</sup>   |
|  |   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>   |
| methyl-C20-26-<br>alkylbenzenesulfonic acid,   | TOXICITY  | IRRITATION   |
| branched, calcium  | Not Available   | Not Available  |
| Legend:  | Value obtained from Europe ECHA Registered Substances - pspecified data extracted from RTECS - Register of Toxic Effect can be supported by the support of the support | Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise of chemical Substances   |
| DADAFFINIO DIOTILI ATF   | The share the first ADD and a second  |  |
| PARAFFINIC DISTILLATE,<br>HEAVY, HYDROTREATED<br>(SEVERE)  | The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in anin  | nal testing.   |
| MINERAL OIL  | the original crude.   |  |
| ZINC BIS(SEC-BUTYL AND<br>1,3-DIMETHYLBUTYL)<br>DITHIOPHOSPHATE  | produce conjunctivitis.  Dithiophosphate alkyl esters is corrosive and toxic to the tissues diarrhoea, skin and gastrointestinal irritation, lethargy, reduced for the eyelid, hair standing up, inco-ordination and salivation. Toxic  | onounced inflammation. Repeated or prolonged exposure to irritants may on skin or oral exposure depending on its concentration. Symptoms included ood intake, staining about the nose and eye; occasionally, there was drooping of ity is reduced following inhalation (due to vapour pressure and high viscosity). It is reperimental animals, but no substantive data is available to establish effect of  |
| METHYL-C20-26-<br>ALKYLBENZENESULFONIC<br>ACID, BRANCHED, CALCIUM  | eczema involves a cell-mediated (T lymphocytes) immune reacti involve antibody-mediated immune reactions. The significance of distribution of the substance and the opportunities for contact wifor alkaryl sulfonate petroleum additives:  Acute toxicity: Existing data indicates relatively low acute toxicity with the detergents in an oil-based vehicle having an irritating eff Subchronic toxicity: Existing data suggests minimal toxicity after caused injury to the skin and the lungs, respectively.  Reproductive and Developmental Toxicity: Existing data did not the linear alkyl benzene sulfonates are derived from strong corrosis sluggishness, passage of frequent watery stools, weakness and   | a, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact ion of the delayed type. Other allergic skin reactions, e.g. contact urticaria, if the contact allergen is not simply determined by its sensitisation potential: the this are equally important.  Animal testing suggested diarrhea and reduced food intake, which is consisted.  |
| LUBRICATING OILS, PETROLEUM C20-50, HYDROTREATED NEUTRAL & PARAFFINIC DISTILLATE, HEAVY, HYDROTREATED (SEVERE) | The adverse effects of these materials are associated w The levels of the undesirable components are inversely Distillate base oils receiving the same degree or extent The potential toxicity of residual base oils is independer The reproductive and developmental toxicity of the disti Unrefined & mildly refined distillate base oils contain the highes molecules and have shown the highest potential cancer-causing are produced from unrefined and mildly refined oils by removing refined base oils, the highly and severely refined distillate base o low mammalian toxicity. Testing of residual oils for mutation-caus belief that these materials lack biologically active components or Toxicity testing has consistently shown that lubricating base oils For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body   | elated to the severity or extent of processing the oil has undergone, since: with undesirable components, and related to the degree of processing; of processing will have similar toxicities; nt of the degree of processing the oil receives. Illate base oils is inversely related to the degree of processing. It levels of undesirable components, have the largest variation of hydrocarbon and mutation-causing activities. Highly and severely refined distillate base oils or transforming undesirable components. In comparison to unrefined and mildly bits have a smaller range of hydrocarbon molecules and have demonstrated versing and cancer-causing potential has shown negative results, supporting the the components are largely non-bioavailable due to their molecular size. have low acute toxicities.  If you weight and the semilethal dose by skin contact is >2g/kg body weight. The aterials have varied from "non-irritating" to "moderately irritating" when tested for |
| ZINC BIS(SEC-BUTYL AND<br>1,3-DIMETHYLBUTYL)   | , <u></u>   |  |

1,3-DIMETHYLBUTYL)
DITHIOPHOSPHATE &
METHYL-C20-26-ALKYLBENZENESULFONIC

No significant acute toxicological data identified in literature search.

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

Legend:

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

Data available to make classification

# **SECTION 12 Ecological information**

### Toxicity

| ble         Not Available         Not Available           tion (hr)         Species         Value           Fish         >100mg/L           Crustacea         >10-mg/L           tion (hr)         Species         Value           Fish         >100mg/L           Crustacea         >10-mg/L           Algae or other aquatic plants         >1000mg/L           Crustacea         >1mg/L           tion (hr)         Species         Value           ble         Not Available         Not Available | Not Available  Source 2 1 Source 2 1 Source 1 Not Available                                     |
|--|---|
| Fish   >100mg/L     Crustacea   >10-mg/L     Crustacea   >1mg/L     tion (hr)   Species   Value     Fish   >100mg/L     Crustacea   >10-mg/L     Algae or other aquatic plants   >1000mg/L     Crustacea   >1mg/L     Algae or other aquatic plants   >1mg/L     Crustacea   >1mg/L     tion (hr)   Species   Value     Not Available   Not  | 2 2 1 Source 2 2 1 1 1 Source Not   |
| Crustacea   >10-mg/L   | 2 1 Source 2 2 1 1 1 Source Not   |
| Crustacea   >1mg/L   | Source  Source  Not   |
| tion (hr)         Species         Value           Fish         >100mg/L           Crustacea         >10-mg/L           Algae or other aquatic plants         >1000mg/L           Crustacea         >1mg/L           tion (hr)         Species         Value           Not         Not  | Source 2 1 1 Source   |
| Fish   >100mg/L     Crustacea   >10-mg/L     Algae or other aquatic plants   >1000mg/L     Crustacea   >1mg/L     tion (hr)   Species   Value     Not Available   Not  | 2 2 1 1 1 Source  |
| Crustacea >10-mg/L  Algae or other aquatic plants >1000mg/L  Crustacea >1mg/L  tion (hr) Species Value  Not Available  | 2<br>1<br>1<br>Source   |
| Algae or other aquatic plants >1000mg/L Crustacea >1mg/L  tion (hr) Species Value Not Available Not  | 1<br>1<br>Source  |
| Crustacea >1mg/L  tion (hr) Species Value Not Available  | 1 Source  |
| tion (hr) Species Value  Not Available Not   | Source<br>Not   |
| Not Available Not  | Not   |
| Not Available  |   |
|  |   |
| tion (hr) Species Value  | Source  |
| Fish 4.4mg/L   | 2   |
| Crustacea 75mg/L   | 2   |
| Algae or other aquatic plants 240mg/L  | 2   |
| Crustacea 0.4mg/L  | 2   |
| tion (hr) Species Value  | Source  |
| ble Not Available Not Available Not Available  | Not<br>Availabl   |
|  | Algae or other aquatic plants 240mg/L Crustacea 0.4mg/L  ation (hr) Species Value Not Available |

DO NOT discharge into sewer or waterways.

# Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

# Bioaccumulative potential

| Ingredient | Bioaccumulation                       |  |
|------------|---------------------------------------|--|
|            | No Data available for all ingredients |  |

# Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

# **SECTION 13 Disposal considerations**

# Waste treatment methods

Product / Packaging disposal

- ▶ 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.

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- 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 Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

### **SECTION 14 Transport information**

### Labels Required

**Marine Pollutant** 

NO

Land transport (TDG): 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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled **Products Regulations** 

### lubricating oils, petroleum C20-50, hydrotreated neutral is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

Chemical Footprint Project - Chemicals of High Concern List

Canada Domestic Substances List (DSL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

### paraffinic distillate, heavy, hydrotreated (severe) is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

Chemical Footprint Project - Chemicals of High Concern List

Canada Domestic Substances List (DSL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# mineral oil is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

### zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

# methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium is found on the following regulatory lists

Not Applicable

### **National Inventory Status**

| National Inventory Status      |   |  |  |
|--------------------------------|---|--|--|
| Australia - AIIC               | Yes   |  |  |
| Australia - Non-Industrial Use | No (lubricating oils, petroleum C20-50, hydrotreated neutral; paraffinic distillate, heavy, hydrotreated (severe); zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium) |  |  |
| Canada - DSL                   | No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| Canada - NDSL                  | No (lubricating oils, petroleum C20-50, hydrotreated neutral; paraffinic distillate, heavy, hydrotreated (severe); zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium) |  |  |
| China - IECSC                  | No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| Europe - EINEC / ELINCS / NLP  | No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| Japan - ENCS                   | No (lubricating oils, petroleum C20-50, hydrotreated neutral; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| Korea - KECI                   | No (zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)  |  |  |
| New Zealand - NZIoC            | No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| Philippines - PICCS            | No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| USA - TSCA                     | No (methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)   |  |  |
| Taiwan - TCSI                  | Yes   |  |  |
| Mexico - INSQ                  | No (lubricating oils, petroleum C20-50, hydrotreated neutral; zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)  |  |  |
| Vietnam - NCI                  | No (zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)  |  |  |
| Russia - ARIPS                 | No (lubricating oils, petroleum C20-50, hydrotreated neutral; zinc bis(sec-butyl and 1,3-dimethylbutyl) dithiophosphate; methyl-C20-26-alkylbenzenesulfonic acid, branched, calcium)  |  |  |
| 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**

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| Revision Date | 01/11/2019 |
|---------------|------------|
| Initial Date  | 04/07/2019 |

### SDS Version Summary

| Version | Issue Date | Sections Updated   |
|---------|------------|--|
| 3.1.1.1 | 05/07/2019 | Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Chronic Health, Classification, Disposal, Engineering Control, Environmental, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), Fire Fighter (fire incompatibility), First Aid (eye), First Aid (inhaled), First Aid (skin), First Aid (swallowed), Handling Procedure, Ingredients, Instability Condition, Personal Protection (other), Personal Protection (Respirator), Personal Protection (eye), Personal Protection (hands/feet), Spills (major), Spills (minor), Storage (storage incompatibility), Storage (storage requirement), Storage (suitable container), Transport, Name |
| 4.1.1.1 | 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

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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