

**Technolube M 20W/50**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) &amp; 2020/878

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

|                        |                     |
|------------------------|---------------------|
| Product Name           | Technolube M 20W/50 |
| Product code           | AOT005              |
| CAS No.                | Not applicable.     |
| EC No.                 | Not applicable.     |
| REACH Registration No. | Not known.          |

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

|                      |                 |
|----------------------|-----------------|
| Identified Use(s)    | Lubricating oil |
| Uses Advised Against | Not known.      |

**1.3 Details of the supplier of the safety data sheet**

## Manufacturer

|                         |   |
|-------------------------|---|
| Company Identification  | Granville Oil & Chemicals Ltd.  |
| Address of Manufacturer | 29 Goldthorpe Ind. Est.,<br>Goldthorpe,<br>Rotherham,<br>South Yorkshire, |
| Postal code             | S63 9BL   |
| Telephone:              | +44 (0)1709 890099  |
| Fax                     | Not known.  |
| E-mail                  | lab@granvilleoil.com  |
| Office hours            | 08:00 - 17:00   |

## Supplier

|                        |   |
|------------------------|---|
| Company Identification | Granville Oil & Chemicals Ltd.  |
| Address of Supplier    | 29 Goldthorpe Ind. Est.,<br>Goldthorpe,<br>Rotherham,<br>South Yorkshire, |
| Postal code            | S63 9BL   |
| Telephone:             | +44 (0)1709 890099  |
| Fax                    | Not known.  |
| E-mail                 | lab@granvilleoil.com  |
| Office hours           | 08:00 - 17:00   |

**1.4 Emergency telephone number**

|                     |                    |
|---------------------|--------------------|
| Emergency Phone No. | +44 (0)1709 890099 |
| Contact             | Granville Lab      |

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Not classified as dangerous for supply/use.

**2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)

**Technolube M 20W/50**

|                            |   |
|----------------------------|---|
| Product Name               | Technolube M 20W/50   |
| Hazard Pictogram(s)        | None.   |
| Signal Word(s)             | None.   |
| Hazard Statement(s)        | None.   |
| Precautionary Statement(s) | P101: If medical advice is needed, have product container or label at hand.<br>P102: Keep out of reach of children. |

**2.3 Other hazards**

EUH208: Contains: (Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts) May produce an allergic reaction.

**2.4 Additional Information**

None.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

| HAZARDOUS INGREDIENT(S)  | CAS No.     | EC No. / REACH Registration No. | %W/W  | Hazard Statement(s)   | Hazard Pictogram(s)     |
|--|-------------|---------------------------------|-------|---|-------------------------|
| reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate                                      | 125643-61-0 | 406-040-9                       | <0.5  | Aquatic Chronic 4 H413  | None                    |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene  | 68411-46-1  | 270-128-1                       | < 1   | Aquatic Chronic 3 H412  | None                    |
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts                                 | 85940-28-9  | 288-917-4                       | < 2   | Skin Irrit. 2 H315<br>Eye Dam. 1 H318<br>Aquatic Chronic 2 H411 | GHS05<br>GHS07<br>GHS09 |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts   | 70024-69-0  | 274-263-7                       | < 1   | Skin Sens. 1B H317  | GHS07                   |
| reaction product of cocoalkyldiethanolamides and cocoalkylmonoglycerides and molybdenumtrioxide (1.75-2.2: 0.75-1.0:0.1-1.1) |             | 430-380-7                       | < 0.5 | Aquatic Chronic 2 H411  | GHS09                   |
| calcium dihydroxide  | 1305-62-0   | 215-137-3                       | < 0.5 | Skin Irrit. 2 H315<br>Eye Dam. 1 H318                           | GHS05<br>GHS07          |



**Technolube M 20W/50**

|   |            |           |       |   |                         |
|---|------------|-----------|-------|---|-------------------------|
|   |            |           |       | STOT SE 3 H335  |                         |
| diphenylamine   | 122-39-4   | 204-539-4 | < 0.5 | Acute Tox. 3 H301<br>Acute Tox. 3 H311<br>Acute Tox. 3 H331<br>STOT RE 2 H373<br>Aquatic Acute 1 H400<br>Aquatic Chronic 1 H410 | GHS06<br>GHS08<br>GHS09 |
| Distillates (petroleum), hydrotreated middle Gasoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205 ° C to 400 ° C (401 ° F to 752 ° F).] | 64742-46-7 | 265-148-2 | < 0.5 | Asp. Tox. 1 H304<br>Skin Irrit. 2 H315<br>Acute Tox. 4 H332<br>Carc. 1B H350<br>STOT RE 2 H373<br>Aquatic Chronic 2 H411        | GHS08<br>GHS07<br>GHS09 |

| HAZARDOUS INGREDIENT(S)   | CAS No.    | Specific Concentration Limit | M-factor | ATE   |
|---|------------|------------------------------|----------|---|
| diphenylamine   | 122-39-4   |                              |          | Acute Tox. 3 (H301) :100.000<br>Acute Tox. 3 (H311) :300.000<br>Acute Tox. 3 (H331) : 3.000 |
| Distillates (petroleum), hydrotreated middle Gasoil - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C11 through C25 and boiling in the range of approximately 205 ° C to 400 ° C (401 ° F to 752 ° F).] | 64742-46-7 |                              |          | Acute Tox. 4 (H332) : 11.000  |

Contains no non-classified vPvB substances.  
Contains no non-classified substances with a Union workplace exposure limit.  
For full text of H/P Statements see section 16.

**Technolube M 20W/50****SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

|              |   |
|--------------|---|
| Inhalation   | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| Skin Contact | Wash skin with water.   |
| Eye Contact  | Flush eyes with water for at least 15 minutes.  |
| Ingestion    | Wash out mouth with water.  |

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

May cause an allergic skin reaction.

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

Unlikely to be required but if necessary treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Suitable Extinguishing media   | Foam, CO <sub>2</sub> or dry Powder. |
| Unsuitable extinguishing media | Do not use water.                    |

**5.2 Special hazards arising from the substance or mixture**

None anticipated. Heating may cause decomposition.

**5.3 Advice for firefighters**

As appropriate for surrounding fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely.

**6.2 Environmental precautions**

Do not release large quantities into the surface water or into drains.

**6.3 Methods and material for containment and cleaning up**

Adsorb spillages onto sand, earth or any suitable adsorbent material.

**6.4 Reference to other sections**

See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Not known.

**7.2 Conditions for safe storage, including any incompatibilities**

|                        |                                 |
|------------------------|---------------------------------|
| Storage temperature    | Ambient.                        |
| Storage life           | Stable under normal conditions. |
| Incompatible materials | None known.                     |

**Technolube M 20W/50****7.3 Specific end use(s)**

Lubricating oil

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

## 8.1.1 Occupational Exposure Limits

| Occupational Exposure Limits            |           |                     |                                    |            |                           |      |
|---|-----------|---------------------|------------------------------------|------------|---------------------------|------|
| SUBSTANCE.                              | CAS No.   | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note |
| Calcium hydroxide                       | 1305-62-0 |                     | 5                                  |            |                           |      |
| Calcium hydroxide - Respirable fraction | 1305-62-0 |                     | 1                                  |            | 4                         |      |
| Diphenylamine                           | 122-39-4  |                     | 10                                 |            | 20                        |      |

|                |   |
|----------------|---|
| Region         | Source  |
| United Kingdom | UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020) |

|        |       |
|--------|-------|
| Remark | Notes |
|--------|-------|

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection Wear eye protection with side protection (EN166).



Skin protection Wear Impervious Gloves (EN374)



Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

|                |         |
|----------------|---------|
| Physical state | Liquid. |
| Colour         | Amber   |

**Technolube M 20W/50**

|  |  |
|--|--|
| Odour  | Characteristic odour   |
| Melting point/freezing point                             | Not known.   |
| Boiling point or initial boiling point and boiling range | Not known.   |
| Flammability   | Not known.   |
| Lower and upper explosion limit                          | Not known.   |
| Flash Point  | >200 ° C   |
| Auto-ignition temperature                                | Not known.   |
| Decomposition Temperature                                | Not known.   |
| pH   | Not known.   |
| Kinematic Viscosity                                      | =181 mm <sup>2</sup> /s 40 ° C                                       |
| Solubility   | Solubility (Water) : Not known.<br>Solubility (Other) : Not known.   |
| Partition coefficient n-octanol/water (log value)        | Not known.   |
| Vapour pressure  | Not known.   |
| Density and/or relative density                          | Density (g/ml) : 0.885 g/cm <sup>3</sup> - Relative density : 15 ° C |
| Relative vapour density                                  | Not known.   |
| Particle characteristics                                 | Not known.   |

**9.2 Other information****SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

None anticipated.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

None anticipated.

**10.5 Incompatible materials**

Not known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

|                               |  |
|-------------------------------|--|
| Acute toxicity - Ingestion    | Not classified.<br>Calculated acute toxicity estimate (ATE) Calc ATE - 1000000.00000 |
| Acute toxicity - Skin Contact | Not classified.<br>Calculated acute toxicity estimate (ATE) Calc ATE - 1000000.00000 |
| Acute toxicity - Inhalation   | Not classified.  |

**Technolube M 20W/50**

|  |   |
|--|---|
|  | Calculated acute toxicity estimate (ATE) Calc ATE - 30697.67000 |
| Skin corrosion/irritation                | Not classified.   |
| Serious eye damage/irritation            | Not classified.   |
| Skin sensitization data                  | Not classified.   |
| Respiratory sensitization data           | Not classified.   |
| Germ cell mutagenicity                   | Not classified.   |
| Carcinogenicity                          | Not classified.   |
| Reproductive toxicity                    | Not classified.   |
| Lactation                                | Not classified.   |
| STOT - single exposure                   | Not classified.   |
| STOT - repeated exposure                 | Not classified.   |
| Aspiration hazard                        | Not classified.   |
| <b>11.2 Information on other hazards</b> |   |
|  | Not known.  |

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

|                                    |                                |
|------------------------------------|--------------------------------|
| Toxicity - Aquatic invertebrates   | Low toxicity to invertebrates. |
| Toxicity - Fish                    | Low toxicity to fish.          |
| Toxicity - Algae                   | Low toxicity to algae.         |
| Toxicity - Sediment Compartment    | Not classified.                |
| Toxicity - Terrestrial Compartment | Not classified.                |

**12.2 Persistence and degradability**

Not known.

**12.3 Bioaccumulative potential**

Not known.

**12.4 Mobility in soil**

Not known.

**12.5 Results of PBT and vPvB assessment**

Not known.

**12.6 Endocrine disrupting properties**

None known.

**12.7 Other adverse effects**

Not known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose at suitable refuse site.

**13.2 Additional Information**

No special precautions are required for this product.

**SECTION 14: TRANSPORT INFORMATION**

**Technolube M 20W/50**

**Not classified as hazardous for transport.**

**14.1 UN number or ID number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing group**

Not applicable

**14.5 Environmental hazards**

Not classified as a Marine Pollutant.

**14.6 Special precautions for user**

Not known

**14.7 Maritime transport in bulk according to IMO instruments**

Not known

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

High Concern for Authorisation

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Carcinogens: category 1B (74869-22-0), Carcinogens: category 1B (64742-46-7), Carcinogens: category 1B (72623-87-1), Carcinogens: category 1B (72623-87-1), Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9), Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1), Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0), reaction product of cocoalkyldiethanolamides and cocoalkylmonoglycerides and molybdenumtrioxide (1.75-2.2: 0.75-1.0:0.1-1.1) (), calcium dihydroxide (1305-62-0), diphenylamine (122-39-4)

Community Rolling Action Plan (CoRAP) Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Diphenylamine (122-39-4)

**National regulations**



**Technolube M 20W/50**

Other

Not known.

**15.2 Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

**LEGEND**

Hazard Pictogram(s)

None.

GHS05: GHS: Corrosion

GHS06: GHS: Skull and crossbones

GHS07: GHS: Exclamation mark

GHS08: GHS: Health hazard

GHS09: GHS: Environment

Hazard classification

Acute Tox. 3 : Acute toxicity, Category 3

Asp. Tox. 1 : Aspiration hazard, Category 1

Acute Tox. 3 : Acute toxicity, Category 3

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Skin Sens. 1B : Skin sensitization, Category 1B

Eye Dam. 1 : Serious eye damage/irritation, Category 1

Acute Tox. 3 : Acute toxicity, Category 3

Acute Tox. 4 : Acute toxicity, Category 4

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

Carc. 1B : Carcinogenicity, Category 1B

STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2

Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1

Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1

Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

H301: Toxic if swallowed.

H304: May be fatal if swallowed and enters airways.

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

**Technolube M 20W/50**

H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H350: May cause cancer.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

None.

Acronyms

ATE : Acute Toxicity Estimate  
CAS : Chemical Abstracts Service  
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
DNEL : Derived No Effect Level  
EC : European Community  
EINECS : European Inventory of Existing Commercial Chemical Substances  
LTEL : Long term exposure limit  
PBT : Persistent, Bioaccumulative and Toxic  
PNEC : Predicted No Effect Concentration  
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity  
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources  
for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Granville Oil & Chemicals Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Granville Oil & Chemicals Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.