



SAFETY DATA SHEET

Gulf EP Lubricant HD 220

11102/220/6

Issuing Date 05-06-2020

Revision Date 05-06-2020

Version 1

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product identifier

Product Name Gulf EP Lubricant HD 220
Product Code(s) 11102/220/6

Other means of identification

UN Number Not Applicable

Recommended use of the chemical and restrictions on use

Recommended Use Industrial gear oil

Uses advised against Any other purpose.

Suppliers name, address and phone number

Gulf Oil Supply Company Limited
B2 Industry Street, Qormi, QRM 3000, Malta
Tel: +44 207 321 6219
E-mail: products@gulfoilltd.com, sds@gulfoilltd.com

(+) 44 808 189 0979 (Code 334276)

(+) 1 760 476 3961 (Code 334276)

(+) 32 (0) 3241 33 55

Emergency telephone number

Poison Information Center telephone number (AU) 13 11 26, (NZ) 0800 764 766

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal word
None

Hazard statements
None

Precautionary Statements
None

Other hazards

May cause sensitization of susceptible persons by skin contact

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. Health hazard information is based on its ingredients

| Chemical name | CAS No | Weight-% |
|--|---------------|------------|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | - | 60% - 100% |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl | NOT AVAILABLE | 0% - 1% |

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. The highly refined base oil may be described by one or more of the following generic CAS identifiers: 64742-54-7, 64742-65-0, 64742-52-5, 64742-53-6, 64742-62-7, 64742-57-0, 64742-01-4, 64741-88-4, 64742-96-4, 64741-97-5, 64742-55-8, 64742-56-9, 64741-89-5, 8042-47-5. See Section 15 for additional information on base oils.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

| | |
|-----------------------------------|---|
| General advice | May produce an allergic reaction. When symptoms persist or in all cases of doubt seek medical advice. |
| Inhalation | Move to fresh air. |
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. May cause an allergic skin reaction. If symptoms persist, call a physician. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. |
| Ingestion | Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical advice. |
| Protection of First-aiders | Use personal protective equipment. Avoid contact with skin, eyes and clothing. |

Most important symptoms and effects, both acute and delayed

Main Symptoms May cause allergic skin reaction, Rashes, Itching

Indication of any immediate medical attention and special treatment needed

Notes to physician May cause sensitization of susceptible persons. Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.: Use CO2, dry chemical, or foam, Water spray or fog, Cool containers with flooding quantities of water until well after fire is out

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. This material creates a fire hazard because it floats on water.

Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂)

Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

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

Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Take precautionary measures against static discharges.

Advice for non-emergency personnel

Material can create slippery conditions.

Advice for emergency responders For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Dike to collect large liquid spills

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

Reference to other sections

See also section 8/12/13

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

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Oxidizing agent

Recommended Use

Industrial gear oil

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

| Chemical name | Australia | New Zealand | New Zealand - Biological Exposure Indices (BEI) |
|---|--------------------------|--|---|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | |

*Australia - Workplace Exposure Standards for Airborne Contaminants.
New Zealand - Workplace Exposure Standards and Biological Exposure Indices.*

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|---|
| Eye/face protection | Safety glasses with side-shields. |
| Skin and body protection | Long sleeved clothing. |
| Hand Protection | Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. |
| Respiratory protection | No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. |

Hygiene measures Regular cleaning of equipment, work area and clothing is recommended.

Environmental Exposure Controls No special environmental precautions required.
Thermal hazards None under normal use conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|------------------|-----------------------|----------------|
| Physical state | Liquid | Appearance | clear amber |
| Odor | Hydrocarbon-like | Odor threshold | Not Determined |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|---|---------------------|----------------|
| pH | Not Determined | |
| Melting point / freezing point | Not determined | |
| Boiling point / boiling range | Not determined | |
| Flash point | > 216 °C / > 421 °F | ASTM D 92 |
| Evaporation rate | negligible | |
| Flammability (solid, gas) | Not Determined | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | Not determined | |
| Lower flammability or explosive limits | Not determined | |
| Vapor pressure | Not determined | |

| | | |
|---------------------------|--------------------|------------|
| Vapor density | Not determined | |
| Relative density | 0.89 @ 15 °C | |
| Solubility(ies) | Insoluble in water | |
| Partition coefficient | not determined | |
| Autoignition temperature | Not Determined | |
| Decomposition temperature | not determined | |
| Kinematic viscosity | 220 cSt @ 40 °C | ASTM D 445 |
| Explosive properties | Not applicable | |
| Oxidizing Properties | Not applicable | |

Other Information

| | | |
|------------------------------|-------------------|------------|
| Viscosity, kinematic (100°C) | 18.9 cSt @ 100°C | ASTM D 445 |
| Pour Point | < -15 °C / < 5 °F | ASTM D 97 |
| VOC Content (ASTM E-1868-10) | Not Determined | |
| VOC content | Not Determined | |

SECTION 10: STABILITY AND REACTIVITY**Reactivity**

None under normal use conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition, Extremes of temperature and direct sunlight

Incompatible materials

Oxidizing agent

Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION**Information on the likely routes of exposure****Product Information - Principle Routes of Exposure**

| | |
|--------------|--|
| Inhalation | None known |
| Eye contact | None known |
| Skin contact | Based on available data, the classification criteria are not met. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons |
| Ingestion | None known |

Numerical measures of toxicity - Product Information

| | |
|-----------------|-------------|
| ATEmix (oral) | >2000 mg/kg |
| ATEmix (dermal) | >2000 mg/kg |

Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Acute toxicity - Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-------------|-------------|-----------------|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | >2000 mg/kg | >2000 mg/kg | >5 mg/L |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. |
| Sensitization | |
| Respiratory Sensitization | Based on available data, the classification criteria are not met. |
| Skin sensitization | Based on available data, the classification criteria are not met. Repeated contact may cause allergic reactions in very susceptible persons. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Exposure levels | See section 8 for more information |
| Interactive effects | None known |

SECTION 12: ECOLOGICAL INFORMATION**Toxicity**

No special environmental measures are necessary

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|----------------------|-----------------|----------------------------|-----------------|
| Highly refined base oil (Viscosity >20.5 cSt @40°C) | >100: 72 h mg/L | >100: 96 h mg/L | | >100: 48 h mg/L |

Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

Bioaccumulative potential

No information available

Mobility in soil

The product is insoluble and floats on water

Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

Safe handling and disposal methods

Dispose of in accordance with local regulations

Disposal of any contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Observe all label precautions until container is cleaned, reconditioned or destroyed.

Environmental regulations

No information available

SECTION 14: TRANSPORT INFORMATION

ADG Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15: REGULATORY INFORMATION

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

National regulations

Australia

Model Work Health and Safety Regulations (2016).
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (2011).

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

New Zealand

Hazardous Substances Regulation 2001.

New Zealand

HSNO Approval Number:
HSNO Hazard Classification:

Not Regulated
Not Regulated
Not Regulated

International Regulations

Ozone-depleting substances (ODS)

Not applicable

The Stockholm Convention on Persistent Organic Pollutants

Not applicable

The Rotterdam Convention

Not applicable

International Inventories**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

All ingredients are on the inventory or exempt from listing

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

All ingredients are on the inventory or exempt from listing

AICS - Australian Inventory of Chemical Substances

All ingredients are on the inventory or exempt from listing

PICCS - Philippines Inventory of Chemicals and Chemical Substances

All ingredients are on the inventory or exempt from listing

KECL - Korean Existing and Evaluated Chemical Substances

All ingredients are on the inventory or exempt from listing

IECSC - China Inventory of Existing Chemical Substances

All ingredients are on the inventory or exempt from listing

ENCS - Japan Existing and New Chemical Substances

All ingredients are on the inventory or exempt from listing

TCSI - Taiwan National Existing Chemical Inventory

Contact supplier for inventory compliance status

NZIoC - New Zealand Inventory of Chemicals

All ingredients are on the inventory or exempt from listing

Other Information

The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers:

| Chemical name | CAS No | EC No |
|---|------------|-----------|
| Distillates (petroleum), solvent-refined heavy paraffinic | 64741-88-4 | 265-090-8 |
| Distillates (petroleum), solvent-refined light paraffinic | 64741-89-5 | 265-091-3 |
| Residual oils (petroleum), solvent deasphalted | 64741-95-3 | 265-096-0 |
| Distillates (petroleum), solvent-refined heavy naphthenic | 64741-96-4 | 265-097-6 |
| Distillates (petroleum), solvent-refined light naphthenic | 64741-97-5 | 265-098-1 |
| Residual oils (petroleum), solvent-refined | 64742-01-4 | 265-101-6 |
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 | 265-155-0 |
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | 265-156-6 |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | 265-157-1 |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8 | 265-158-7 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | 64742-56-9 | 265-159-2 |
| Residual oils (petroleum), hydrotreated | 64742-57-0 | 265-160-8 |
| Lubricating oils (petroleum), hydrotreated spent | 64742-58-1 | 265-161-3 |
| Residual oils (petroleum), solvent-dewaxed | 64742-62-7 | 265-166-0 |

| | | |
|--|------------|-----------|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | 265-169-7 |
| Paraffin oils (petroleum), catalytic dewaxed heavy | 64742-70-7 | 265-174-4 |
| Paraffin oils (petroleum), catalytic dewaxed light | 64742-71-8 | 265-176-5 |
| Lubricating oils (petroleum), C>25, hydrotreated bright stock-based | 72623-83-7 | 276-735-8 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high-viscosity | 72623-85-9 | 276-736-3 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 72623-86-0 | 276-737-9 |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | 72623-87-1 | 276-738-4 |
| Lubricating oils | 74869-22-0 | 278-012-2 |
| White mineral oil (petroleum) | 8042-47-5 | 232-455-8 |

SECTION 16: OTHER INFORMATION

Issuing Date 05-06-2020
Revision Date 05-06-2020
Revision Note Initial Release

Key or legend to abbreviations and acronyms used in the safety data sheet

| | | | |
|---------|-----------------------|------------|---------------------------|
| TWA | Time weighted average | STEL | Short term exposure limit |
| Ceiling | Maximum limit value: | (s) - Skin | Skin designation |
| + | Sensitizers | C | Carcinogen |

STOT SE - Specific target organ systemic toxicity (Single exposure)
STOT RE - Specific target organ systemic toxicity (repeated exposure)
VOC - Volatile organic compounds

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet