

Safety Data Sheet



SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name/Identifier Gear Oil M 220
Product Code LU1825
Company Information Vance Chemicals Pte Ltd
No.24 Gul Lane
Singapore 629418
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msds@mr-mckenic.com
Emergency Contact +65 9299 8024

SECTION 2 HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health	Environmental	Physical
Not classified	Not classified	Not classified

SECTION 3 COMPOSITIONS / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS : Petroleum hydrocarbon and additives.

HAZARDOUS INGREDIENTS : No reportable hazardous or complex substances.

SECTION 4 FIRST AID MEASURES

INHALATION : Call a POISON CENTRE or doctor/physician if the victim feels unwell.

SKIN CONTACT : If it is spilled on the skin, wash off with copious amounts of soap and water. If irritation occurs, get medical attention.

EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention

INGESTION : Call a POISON CENTRE or doctor/physician if the victim feels unwell.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA :

Appropriate Extinguishing Media : Water fog, foam, dry powder or carbon dioxide.

Inappropriate Extinguishing Media : Straight stream of water.

Page 2 of 5, RC / O / A

FIRE FIGHTING :

Safety Data Sheet



Fire Fighting Instructions : Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products : Smoke, fume, aldehydes, oxides of carbon, sulfur oxides, incomplete combustion products.

SECTION 6 ACCIDENTAL RELEASE MEASURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES :

Avoid contact with spilled material.

Do not touch or walk through spilled material.

Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders. (Refer Section 8)

SPILL MANAGEMENT :

Land Spill : Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent.

Water Spill : Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Notify port or relevant authority and keep public away. Remove from surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Water spill and land spill recommendations are based on the most likely spill scenario for this material. However, geographic conditions, wind, temperature, wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.

ENVIRONMENTAL PRECAUTION :

Small Spill : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Large Spill : Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING : Wear protective gloves. Avoid contact with eyes, skin and clothing. Keep container closed. Avoid breathing vapor or mist. Wash thoroughly after handling.

STORAGE : Keep container in a cool, well-ventilated area. Store in accordance with applicable laws and regulations and material.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT : ACGIH TLV/TWA ACGIH STEL OSHA PEL
Oil mist, refined mineral 5mg/m³ 10mg/m³ 5mg/m³

ENGINEERING CONTROLS : No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION : The use and choice of Personal Protection Equipment is related to the hazard of the product, the workplace, and the way the product is handled.

Eye protection : If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection : No skin protection is required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Page 3 of 5, RC / O / A

Hand Protection : No special requirements under ordinary conditions of use and with adequate ventilation.

Safety Data Sheet



Respiratory Protection : No special requirements under ordinary conditions of use and with adequate ventilation.

Specific Hygiene Measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	: Liquid
COLOUR	: Max.4.0
ODOUR	: Marketable
ODOUR THRESHOLD	: N/D
PH	: N/A
MELTING POINT/FREEZING POINT	: N/D
POUR POINT	: -12°C
BOILING POINT / RANGE	: N/D
FLASH POINT [METHOD]	: 245°C [ASTM D92]
EVAPORATION RATE	: < 0.01
FLAMMABILITY	: N/D
FLAMMABLE LIMITS	
(approximate volume % in air)	: N/D
VAPOUR PRESSURE	: N/D
VAPOUR DENSITY (air = 1)	: N/D
SPECIFIC GRAVITY (water = 1.0)	: Approximately 0.89 at 15°C
SOLUBILITY IN WATER	: Negligible
PARTITION COEFFICIENT (n-octanol/water)	: N/D
AUTOIGNITION TEMPERATURE	: N/D
DECOMPOSITION TEMPERATURE	: N/D
KINEMATIC VISCOSITY	: 220 cSt @ 40°C (700 SUS @ 104°F) 14.9 cSt @ 100°C (75 SUS @ 212°F)

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY : No reactivity hazards are known for the product.

CHEMICAL STABILITY : Product is stable under normal conditions.

POSIBILITY OF HAZARDOUS REACTIONS : No known hazardous reactions.

CONDITIONS TO AVOID : Excessive heat, sources of ignition.

INCOMPATIBLE MATERIALS : Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS : Product does not decompose at ambient temperatures.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : No data available.

SKIN CORROSION / IRRITATION : Negligible irritation at ambient temperatures.

SERIOUS EYE DAMAGE / IRRITATION : May cause mild, short-lasting discomfort to eyes.

Safety Data Sheet



RESPIRATORY OR SKIN SENSITIZATION : No data available.

GERM CELL MUTAGENICITY : No data available.

Page 4 of 5, RC / O / A

CARCINOGENICITY : No data available.

REPRODUCTIVE TOXICITY : No data available.

TERATOLOGY : No data available.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) : No data available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) : No data available.

ASPIRATION HAZARD : No data available.

SECTION 12 ECOLOGICAL INFORMATION

Avoid contaminating waterways.

TOXICITY : No data available.

PERSISTENCE AND DEGRADABILITY : Adequate data is not available to show the biodegradation potential of this product.

BIOACCUMULATION POTENTIAL : No data available.

MOBILITY IN SOIL : This product is expected to adsorb to sediment and soil.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : This product should not be allowed to enter waterways or soil. Not suitable for landfill. Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of contents/containers in accordance with applicable laws and regulations and material characteristics at time of disposal.

EMPTY CONTAINER WARNING (where applicable) : Empty containers may contain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Do not attempt to refill or clean containers without proper instructions. Empty containers should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14 TRANSPORT INFORMATION

LAND : Not regulated for Land Transport.

SEA(IMDG) : Not regulated for Sea Transport according to IMDG-Code.

AIR(IATA): Not regulated for Air Transport.

SECTION 15 REGULATORY INFORMATION

Not dangerous for conveyance under UN, ADR/RID, IMO and IATA/ICAO.
All components comply with TSCA. EU labeling not required.

Safety Data Sheet



SECTION 16 OTHER INFORMATION

Department issuing date sheet: Vance Chemicals Quality Control and Laboratory

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Issue date: 01

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