

HELMSMAN SUPPLY LIMITED

啟航船供有限公司

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MATERIAL SAFETY DATA SHEET

(SOLAS regulation VI/5-1 format)

1. Chemical & Company Identification

product name: Marine Gas Oil

supplier: Helmsman Supply Limited

Office No. 15, 25/F., Hong Kong Plaza,

188 Connaught Road West,

Hong Kong

routine inquiries: +852 2851-9292

fax: +852 2851-7799

chemical description: Petroleum Mid-distillate

2. Composition & Ingredients

components	cas no.	range in %
A complex mixture of hydrocarbons produced by crude oil distillation predominantly C-9 to C-20 and boiling range 160-400 deg. C. Hydrotreated or desulfurized product also contains distillate from catalytic cracking. The latter contains bicyclic and tricyclic aromatic hydrocarbons.	68334305	100

3. Hazards Identification

warning statements: FLAMMABLE.

CAUSES EYE AND SEVERE SKIN IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.

CONTAINS MIDDLE DISTILLATE WHICH MAY BE HARMFUL.

LOW VISCOSITY PETROLEUM MIXTURE CAN CAUSE LUNG INJURY.

AVOID PROLONGED AND REPEATED SKIN CONTACT.

IF SKIN CONTACT OCCURS, WASH EXPOSED AREA WITH SOAP

AND WATER.

LAUNDER CONTAMINATED CLOTHING.

USE ONLY AS A FUEL.

eyes: May cause slight eye irritation, characterized by redness, tearing, or a

burning sensation.

oral: Expected to have slight acute toxicity by ingestion.

Ingestion of this product and subsequent vomiting can result in aspiration

into the lungs, causing chemical pneumonia and lung damage.

inhalation: May cause symptoms of drowsiness or narcosis from inhalation of high

vapour concentrations.

See 'Long Term Toxic Effects' and Section 11 for additional information.

skin: May cause severe irritation with pain, redness, swelling, chemical burns

and blister formation. Other than the irritation effects noted above,

adverse effects are not expected from brief skin contact.

Prolonged or repeated skin contact may be harmful. See Section 11 for

additional information.

long term toxic

effects:

Cancer information available on this material or a component(s).

See Section 11 for additional information.

4. First Aid Measures

eyes: Flush eyes immediately with fresh water for at least 15 minutes while

holding the eyelids open.

If irritation persists, see a doctor.

skin: Remove and launder contaminated clothing, including shoes. Wash

skin

thoroughly with soap and water. See a doctor if any signs or symptoms

described in this MSDS occur.

Discard contaminated non-waterproof shoes and boots.

ingestion: Do not induce vomiting. Aspiration of the material can cause serious

lung injury such as chemical pneumonia. Call a doctor immediately. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Never give anything by

mouth to an unconscious person.

inhalation: If there are signs or symptoms as described in this MSDS due to

breathing this material, move the person to fresh air. If breathing has

stopped, apply artificial respiration. Call a doctor.

advice to doctor:

This product may present an aspiration hazard. See related comments

in

this MSDS. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of

aspiration into the lungs may be delayed up to 48 hours.

5. Fire Fighting Measures

ignition temp. (degrees c): 260 - 350

flammable limits (% by volume): 0.5 - 4.1

flash point (degrees c): 60 - 70 (PMCC)

fire extinguishing agents: According to the U.S. National Fire Protection

Association Guide, use water fog, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons

attempting to stop the leak.

explosion hazards: Full body flame-resistant clothing and/or turn-out gear

recommended for persons attempting leak or spill

control and for fire fighting.

6. Accidental Release Measure

Eliminate all ignition sources including internal combustion engines and

power tools. Ventilate area. Keep people away. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapours and eye or skin contact. Use respirator and protective clothing as

eye or skin contact. Use respirator and protective

discussed

in this MSDS (See Section 8). Use supplied-air respirator for large releases in confined area. Contain spill if possible. Remove with inert

absorbent and place in container for disposal at an approved facility. Prevent entry into sewers and waterways.

7. Handling & Storage

Keep away from heat, sparks, and flame. Keep containers tightly closed. Handle and store in well-ventilated area and in accordance with local regulations regarding flammable liquids.

Empty containers retain residue (liquid and/or vapour) 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 clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. Exposure Control/Personal Protection

eyes: Avoid eye contact. The wearing of chemical safety goggles or face

shield is recommended.

skin: Avoid contact with skin or clothing. Skin contact can be minimized by

wearing impervious protective clothing including gloves. Protective clothing made from neoprene, nitrile, or n-butyl rubber is suitable in these

applications.

Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water, and laundering or dry cleaning soiled work clothing at least

weekly.

inhalation: If operating conditions create airborne concentrations that are excessive

and may exceed the exposure standard(s), the use of an approved

respirator is recommended.

Wear approved respiratory protection such as an organic vapour

cartridge respirator with particulate prefilter.

Use approved supplied air respiratory protection for cleaning large spills

or upon entry into tanks, vessels, or other confined spaces.

ventilation: Under normal applications of this product, general dilution ventilation is

adequate.

exposure limits: No ACGIH TLV exists for this material. Caltex recommends an daily

8-hour TWA of 100 ppm.

9. Physical & Chemical Properties

note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative.

appearance & odor: Clear to amber colored liquid

boiling point (deg. c): 200 - 340

vapor pr. (mmhg @ 25 deg. c): Low

density (kg/l at 15 deg. c): 0.8500

vapor density (air = 1): Not Determined

ph of undiluted product: Not Applicable

solubility (water): Negligible

percent volatile by volume: Not Determined

evaporation: Not Determined

viscosity (all product grades): 1.7 mm2/s @ 40 deg. C

10. Stability & Reactivity

hazardous polymerizations: DO NOT OCCUR

products of combustion: Carbon monoxide and carbon dioxide may be

formed

on burning in limited air supply.

conditions to avoid: Heat, Strong Oxidizers

11. Toxicological Information

general: Contains middle distillate. Middle distillates have caused skin cancer in

laboratory animals following lifetime application to the skin. Brief or intermittent skin contact is not expected to cause adverse effects if it is washed thoroughly. Avoid prolonged or repeated skin contact or

breathing of vapour or mist.

U.S. NIOSH has recommended whole diesel exhaust be regarded as a potential occupational carcinogen, based on findings of carcinogenic response in laboratory animals exposed to whole diesel exhaust. The

excess risk has not been estimated. Avoid exposure to diesel exhaust. Note: exhaust from fuel oils and gas oils may present similar exposure potential and should also be avoided.

12. Ecological Information

environmental

No specific ecotoxicity data on this product are available.

effects:

13. Disposal Consideration

waste disposal: Place contaminated materials in disposable containers and dispose of in

a manner consistent with applicable regulations. Contact local

environmental or health authorities for approved disposal of this material.

remarks: Do not allow to enter drains or sewers. Can cause explosion.

14. Transport Information

transport of dangerous goods:

UN Number: 1268

Dangerous Goods Class: 3

Proper Shipping Name: Petroleum Distillates, N.O.S. or Petroleum Products,

N.O.S.

Hazchem Code (Australia/NZ): 3Y

Additional Information: Transport in accordance with local regulations

regarding flammable liquids.

15. Regulatory Information

respirator information: Respirator users in Australia and New Zealand should comply

with AS/NZS 1715/1716.

Where local approval authority is absent, respirator users can refer to U.S. NIOSH, European Standard EU-149, or joint Australia-New Zealand AS/NZS 1715/1716 for guidance.

16. Other Information

No specific notes on this product.

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