

# Gulf Marine Pte. Ltd.

Chemwatch: **5624-31** Version No: **3.1** Safety Data Sheet in accordance with SS 586-3:2022 Issue Date: 27/09/2023 Print Date: 07/05/2025 S.GHS.SGP.EN.E

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

# **Product Identifier**

Product name	GulfSea N Cooloil 68
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	2MR10680-82

# Relevant identified uses of the substance or mixture and uses advised against

# Details of the manufacturer or importer of the safety data sheet

Registered company name	Gulf Marine Pte. Ltd.
Address	37 Tuas Road 638503 Singapore
Telephone	+65 6592 0120
Fax	Not Available
Website	Not Available
Email	sds@gulf-marine.com

## Emergency telephone number

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Association / Organisation	Gulf Marine Pte. Ltd.	
Emergency telephone number(s)	+65 6592 0120	
Other emergency telephone number(s)	Not Available	

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

Classification	Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3
Label elements	
Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	
H336	May cause drowsiness or dizziness.
Precautionary statement(s) Pre	evention
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.

#### Precautionary statement(s) Response

Precautionary statement(s) Response		
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Precautionary statement(s) Sto	rage	
Precautionary statement(s) Sto P405	rage Store locked up.	

# Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### Other hazards

Inhalation and/or ingestion may produce health damage\*.

Cumulative effects may result following exposure\*.

May produce discomfort of the eyes, respiratory tract and skin\*.

Repeated exposure potentially causes skin dryness and cracking\*.

HARMFUL: may cause lung damage if swallowed

\*LIMITED EVIDENCE

#### SECTION 3 Composition / information on ingredients

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	% [weight]	Name	Synonyms	Chemical formula
64742-52-5.	>60	naphthenic distillate, heavy, hydrotreated (severe)	petroleum oil, naphthenic; mineral oil, petroleum distillates, hydrotreated heavy naphthenic; petroleum distillates, hydrotreated heavy naphthenic; extender oil; process oil; rubber processing oil; rubber extender oil; oil, naphthenic (heavy, hydrotreated); Tufflo 100 Frick Oil 2A York Oil C; Suniso 3GS Refrigeration Oil; T 22; T22; T110; T 110	Not Available
Not Available	balance	Ingredients determined not to be hazardous		Not Available

#### **SECTION 4 First aid measures**

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

## Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. 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.

Treat symptomatically.

For petroleum distillates

• In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption - decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration.

Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.

Positive pressure ventilation may be necessary.

· Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.

• After the initial episode individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary

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disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.

· Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.

• Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

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 Firefighting measures**

#### Extinguishing media

- Foam.
- Dry chemical powder.BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

#### 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

#### Advice for firefighters

Autor for menginere	
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> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/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>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>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.</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

Minor Spills	Slippery when spilt.         Remove 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.         Contain and absorb spill with sand, earth, inert material or vermiculite.         Wipe up.         Place in a suitable, labelled container for waste disposal.
Major Spills	<ul> <li>Slippery when spilt.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

Safe handling	The conductivity of this material may make it a static accumulator. A liquid is typically considered noncoductive if its conductivity is below 10 00 pS/m. Whether a liquid is nonconductive or semi-conductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of alquid. Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, dill, grind, weld or perform similar operations on or near containers. Do Not cut, dill, grind, weld or perform similar operations on or near containers. Do Not cut, dill, grind, weld or perform similar operations on or near containers. Do Not exit, dill, grind, weld or perform similar operations on or near containers. Do Not exit, dill on exit of the super distribution of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec.). Not support the value of the super support of the support of the value of the support of the support of the value of the support of the value of the support of the supp
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> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

# Conditions for safe storage, including any incompatibilities

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	<ul> <li>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.</li> <li>Oil leaks in a pressurized circuit may result in a fine flammable spray (the lower flammability limit for oil mist is reached for a concentration of about 45 g/m3</li> <li>Autoignition temperatures may be significantly lower under particular conditions (slow oxidation on finely divided materials</li> <li>Avoid reaction with oxidising agents</li> </ul>

# SECTION 8 Exposure controls / personal protection

# **Control parameters**

# Occupational Exposure Limits (OEL)

INGREDIENT DATA							
Source	Ingredient	Material nar	ne	TWA	STEL	Peak	Notes
Singapore Permissible Exposure Limits of Toxic Substances	naphthenic distillate, heavy, hydrotreated (severe)	Oil Mist, min	eral	5 mg/m3	10 mg/m3	Not Available	Not Available
Ingredient	Original IDLH		Rev	vised IDLH			
naphthenic distillate, heavy, hydrotreated (severe)	2,500 mg/m3		Not	Available			

## Exposure controls

•	
Appropriate engineering	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls
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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Air Speed:
0.25-0.5 m/s (50- 100 f/min.)
0.5-1 m/s (100- 200 f/min.)
1-2.5 m/s (200- 500 f/min.)
2.5-10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

and the

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>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.</li> <li>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.</li> <li>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:         <ul> <li>if requency and duration of contact.</li> <li>chemical resistance of glove material.</li> <li>glove thickness and</li> <li>dove thickness and</li> <li>dove thickness and</li> <li>with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>When notip brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.</li> <li>Contaminated gloves should be replaced.</li> <li>As defined in ASTM F-739-96 in any application, gloves are rated as:</li> <li>Excellent when breakthrough time &gt; 480 min<!--</th--></li></ul></li></ul>

	Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

## **Respiratory protection**

Type A 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	-	A-PAPR-AUS / Class 1
up to 50 x ES	-	A-AUS / Class 1	-
up to 100 x ES	-	A-2	A-PAPR-2 ^

^ - 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 Clear to slightly yellow colored liquid with mild petroleum odor; does not mix with water.

Physical state	Liquid	Relative density (Water = 1)	0.89-0.91
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 (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	20-110
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>160 (ASTM D-92)	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)	<0.0002 mmHg	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	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** 

b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.				
	Based on available data, the classification criteria are not met.				
c) Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.				
d) Respiratory or Skin sensitisation	Based on available data, the classification criteria are not met.				
e) Mutagenicity	Based on available data, the classification criteria are not met.				
f) Carcinogenicity	Based on available data, the classification criteria are not met.				
g) Reproductivity	Based on available data, the classification criteria are not met.				
h) STOT - Single Exposure	There is sufficient evidence to classify this material as toxic to specific	organs through single exposure			
STOT - Repeated Exposure	Based on available data, the classification criteria are not met.				
j) Aspiration Hazard	Based on available data, the classification criteria are not met.				
Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation hazard is increased at higher temperatures. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.				
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.				
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying followin There is some evidence to suggest that this material can cause inflam The liquid may be able to be mixed with fats or oils and may degrease dermatitis. The material is unlikely to produce an irritant dermatitis as of Open cuts, abraded or irritated skin should not be exposed to this mate The material may accentuate any pre-existing dermatitis condition Entry into the blood-stream, through, for example, cuts, abrasions or le skin prior to the use of the material and ensure that any external dama Aromatic hydrocarbons may produce sensitivity and redness of the ski but branched species are more likely to.	ng normal handling and use. mation of the skin on contact in some persons. the skin, producing a skin reaction described as non-allergic contac described in EC Directives. erial esions, may produce systemic injury with harmful effects. Examine t age is suitably protected.			
Eye	Dut branched species are more linkely to. This material can cause eye irritation and damage in some persons. Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion.				
	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. 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. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weigh loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.				
Chronic	warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may p	roduce stupor with dizziness, weakness and visual disturbance, wei			
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Chronic GulfSea N Cooloil 68	warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may p	roduce stupor with dizziness, weakness and visual disturbance, wei			
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GulfSea N Cooloil 68 aphthenic distillate, heavy,	warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may p loss and anaemia, and reduced liver and kidney function. Skin exposu TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	IRRITATION IRRITATION Eye: no adverse effect observed (not irritating) <sup>[1]</sup>			
GulfSea N Cooloil 68 aphthenic distillate, heavy,	warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may p loss and anaemia, and reduced liver and kidney function. Skin exposu TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup>	IRRITATION IRRITATION Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Rodent - rabbit): 500mg - Severe			
GulfSea N Cooloil 68 aphthenic distillate, heavy,	warts on the soles of the feet. Constant or exposure over long periods to mixed hydrocarbons may p loss and anaemia, and reduced liver and kidney function. Skin exposu TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (Rat) LC50: 2.18 mg/l4h <sup>[2]</sup>	IRRITATION IRRITATION Eye: no adverse effect observed (not irritating) <sup>[1]</sup> Skin (Rodent - rabbit): 500mg - Severe Skin: no adverse effect observed (not irritating) <sup>[1]</sup> toxicity 2. Value obtained from manufacturer's SDS. Unless otherw			

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	results, supporting the belief that these materials littheir molecular size. Toxicity testing has consistently shown that lubricat base oil s mutagenic and carcinogenic potential co DMSO extractables (e.g. IP346 assay), both chara For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose semilethal concentration for inhalation is 2.18 to > tested for skin and eye irritation. Testing for sensiti effects to the testes and lung have been observed found to cause reproductive toxicity or significant i chromosome aberrations.	ack biologically active components of ting base oils have low acute toxicitii rrelates with its 3-7 ring polycyclic a cteristics that are directly related to is >5g/kg body weight and the semil 4 mg/L. The materials have varied fm sation has been negative. The effect as well as the formation of granulor nereases in birth defects. They are a ic in at least one assay, or belongs t s.	romatic compound (PAC) content, and the level of the degree/conditions of processing. ethal dose by skin contact is >2g/kg body weight. The om "non-irritating" to "moderately irritating" when s of repeated exposure vary by species; in animals, nas. In animals, these substances have not been
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	*
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

Data either not available or does not fill the criteria for classification
 Data available to make classification

# Other information

Not Available

# **SECTION 12 Ecological information**

GulfSea N Cooloil 68	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available Not Available		Not Available
naphthenic distillate, heavy, hydrotreated (severe)	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	>1000mg/l	1
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
ilydrotreated (severe)	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	NOEC(ECx)	504h	Crustacea	>1mg/l	1
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europe E	CHA Registered Substances - Ecotoxicological Inform	ation - Aquatic Toxicitv	4. US EF

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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			
Bioaccultulative potential			
Ingredient	Bioaccumulation		
	No Data available for all ingredients		
Mobility in soil			
Ingredient	Mobility		
	No Data available for all ingredients		

## Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

## **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Recycling Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been
contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be
appropriate.
<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> </ul>
It may be necessary to collect all wash water for treatment before disposal.
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 (UN): 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

14.7. Maritime transport in bulk according to IMO instruments

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

naphthenic distillate, heavy, hydrotreated (severe) Not Available	3

## 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
naphthenic distillate, heavy, hydrotreated (severe)	Not Available

# **SECTION 15 Regulatory information**

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

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

Chemical Footprint Project - Chemicals of High Concern List

Singapore Permissible Exposure Limits of Toxic Substances

# Additional Regulatory Information

Not Applicable

## National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (naphthenic distillate, heavy, hydrotreated (severe))
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

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#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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.