



# SAFETY DATA SHEET

Gulf HT Fluid TO-4, SAE 50

04105/50/2

Issuing Date 01-30-2018

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Version 1

## SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### Product identifier

**Product Name** Gulf HT Fluid TO-4, SAE 50  
**Product Code(s)** 04105/50/2

### Other means of identification

**UN Number** Not Applicable

### Recommended use of the chemical and restrictions on use

**Recommended Use** Brake fluid

**Uses advised against** Any other purpose.

### Suppliers name, address and phone number

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

### Emergency telephone number

Europe (+) 44 808 189 0979 Code 334276  
(+) 1 760 476 3961 Code 334276  
(+) 32 (0) 3241 33 55

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

## SECTION 2: HAZARDS IDENTIFICATION

### GHS Classification

<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
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### Label elements

Contains Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts

Exclamation mark



**Signal word**  
WARNING

**Hazard statements**  
H319 - Causes serious eye irritation

**Precautionary Statements - Prevention**  
Wear eye protection/ face protection  
Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**  
Not applicable

**Eyes**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Other hazards**  
No information available

### 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)	-	91.26202
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	3.52
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1.196

The remaining composition is a mixture of non-classified ingredients or additives below the threshold for disclosure

### SECTION 4: FIRST AID MEASURES

#### Description of first-aid measures

<b>General advice</b>	Do not get in eyes, on skin, or on clothing. When symptoms persist or in all cases of doubt seek medical advice.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
<b>Ingestion</b>	Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### Most important symptoms and effects, both acute and delayed

**Main Symptoms** Eye damage/irritation

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

**Notes to physician** Symptoms may be delayed.

## 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

**Extinguishing media which shall not be used for safety reasons**

Do not use water jet

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous decomposition products**

Hydrogen peroxide

**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**

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**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 materials for containment and cleaning up**

After cleaning, flush away traces with water.

**Reference to other sections**

See Section 8/12/13 for additional information

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Ensure adequate ventilation. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

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

Store in original container. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials**

Strong oxidizing agents

**Recommended Use**

Brake fluid

**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 <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	

*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**

Tightly fitting safety goggles. Eye protection must conform to standard EN 166.

**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**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**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**  
**Odor**

liquid  
bland

**Appearance**  
**Odor threshold**

clear amber  
Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	7.0 - 11.50	
<b>Melting point / freezing point</b>	< -50 °C / < -58 °F	
<b>Boiling point / boiling range</b>	>260 °C / > 500 °F	
<b>Flash point</b>	> 100 °C / > 212 °F	
<b>Evaporation rate</b>	Not Determined	
<b>Flammability (solid, gas)</b>	Not Determined	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	Not Determined	
<b>Lower flammability limit:</b>	Not Determined	
<b>Vapor pressure</b>	<2	mbar
<b>Vapor density</b>	Not Determined	
<b>Relative density</b>	1.020-1.070	@20°C
<b>Solubility(ies)</b>	Water solubility: Miscible	
<b>Partition coefficient</b>	<2.0	
<b>Autoignition temperature</b>	> 300 °C / > 572 °F	
<b>Decomposition temperature</b>	> 300 °C	
<b>Kinematic viscosity</b>	5-10 cSt @ 20 °C	
<b>Explosive properties</b>	Not applicable	
<b>Oxidizing Properties</b>	Not applicable	
<b><u>Other Information</u></b>		
<b>Viscosity, kinematic (100°C)</b>	Not Determined	
<b>Pour Point</b>	Not Determined	
<b>VOC Content (ASTM E-1868-10)</b>	Not Determined	
<b>VOC content</b>	Not Determined	

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

None under normal use conditions

### Chemical stability

Stable under normal conditions

### Possibility of hazardous reactions

Contact with metals may evolve flammable hydrogen gas; Aluminium

### Conditions to avoid

Do not allow evaporation to dryness

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Hydrogen peroxide

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on the likely routes of exposure

**Product Information - Principle Routes of Exposure**

Inhalation	None known
Eye contact	Irritating to eyes
Skin contact	None known
Ingestion	None known

**Numerical measures of toxicity - Product Information**

ATEmix (oral)	>2000 mg/kg
ATEmix (dermal)	93,103.00 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	
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	

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

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Sensitization</b>	
<b>Respiratory Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ systemic toxicity (single exposure)</b>	Based on available data, the classification criteria are not met
<b>Specific target organ systemic toxicity (repeated exposure)</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Exposure levels</b>	See section 8 for more information
<b>Interactive effects</b>	None known

<b>SECTION 12: ECOLOGICAL INFORMATION</b>
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**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
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>100: 72 h mg/L	>100: 96 h mg/L		>100: 48 h mg/L
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts		1.0 - 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 - 35.0: 96 h Pimephales promelas mg/L LC50 semi-static		1 - 1.5: 48 h Daphnia magna mg/L EC50

**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**

The product is water soluble, and may spread in water systems

**Other adverse effects**

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

**Safe handling and disposal methods**

Dispose of as hazardous waste in compliance with local and national 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:**

Lubricants (Low Hazard) Group Standard 2006

HSR002605

6.4A

**International Regulations****Ozone-depleting substances (ODS)**

Not applicable

**Persistent Organic Pollutants**

Not applicable

**Chemicals Subject to Prior Informed Consent (PIC)**

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

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

The highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers:

Chemical name	CAS No	EC-No
Distillates (petroleum), hydrotreated heavy paraffinic	63742-54-7	265-157-1
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 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 light	64742-71-8	265-176-5
Dec-1-ene, homopolymer, hydrogenated	68037-01-4	500-183-1
Lubricating oils (petroleum), C>25, hydrotreated bright stock-based	72623-83-7	276-735-8
Lubricating oils (petroleum), C20-50, hydrotreated neutral	72623-85-9	276-736-3

oil-based, high-viscosity		
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

## SECTION 16: OTHER INFORMATION

**Issuing Date** 01-30-2018  
**Revision Date** 01-30-2018  
**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**