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## SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

As of the revision date above, this SDS meets the regulations in Malaysia.

**PRODUCT IDENTIFIER** 

Product Name: MOBIL ANTIFREEZE EXTRA

Product Description: Glycol

**Product Code:** 330977, 351010601020

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use: Antifreeze/coolant

Restrictions on Use: This product is not recommended for any industrial, professional or consumer use other

than the Recommended Uses above.

**SUPPLIER DETAILS** 

Supplier: ExxonMobil Asia Pacific Pte.Ltd. (Company No.: 196800312N)

1 Harbour Front Place

#06-00 Harbour Front Tower One 098633 Singapore

**24 Hour Emergency Telephone** 1-800-815-308 / +1-703-527-3887

Supplier General Contact (+65) 6885 8000

Supplier: HT LUBRICANT SENDIRIAN BERHAD (646137-M)

90, Jin Tampoi

Johor Bahru 81200 Malaysia

 Supplier General Contact
 +607-335 3663

 FAX
 +607-335 8603

Supplier: MOBILUB TRADING SENDIRIAN BERHAD (514125-H)

No.1, Jalan Meranti Puchong,

D'25@Meranti Puchong

Selangor Darul Ehsan 47120 Malaysia

**Supplier General Contact** +603-8066 5081 **FAX** +603-8066 5087

Supplier: OPTIMUM FLUIDS MARKETING SENDIRIAN BERHAD (668909-D)

PLOT 110, LGR.PERINDUSTRIAN, BUKIT MINYAK 11

KAW.PENINDUSTRIAN, Bukit Mertajam Penang 14100 Malaysia

Supplier General Contact +604-510 2166



MOBIL ANTIFREEZE EXTRA Product Name:

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Supplier: TIMUR LUBE SDN. BHD. (806793-H)

Wisma Hubline, 1st Floor, Lease No.3815, Lot 10914, Section 64

KTLD, Jalan Datuk Abang Abdul Rahim

93450 Kuching

Sarawak Malaysia

**Supplier General Contact** +6 082 338567

#### **SECTION 2 HAZARDS IDENTIFICATION**

This material is hazardous according to regulatory guidelines (see SDS Section 15).

#### CLASSIFICATION:

Acute oral toxicant: Category 4. Specific target organ toxicant (repeated exposure): Category 2.

## **LABEL ELEMENTS:**

Symbol:



Signal Word: Warning

#### **Hazard Statements:**

Health: H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated

exposure. Kidney

## **Precautionary Statements:**

General: P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach

of children. P103: Read label before use.

Prevention: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe mist / vapours. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P281: Use personal protective equipment as required.

Response: P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P308 + P313: IF exposed or concerned: Get medical advice/attention. P314: Get medical advice/attention if you feel unwell. P330: Rinse mouth.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents and container in accordance with local regulations.

## Other hazard information:

## PHYSICAL / CHEMICAL HAZARDS

No significant hazards.



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## **HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. Ingestion may cause serious adverse effects and may be fatal. May cause kidney failure and central nervous system effects. Prolonged exposure to elevated concentrations of mist or liquid may cause irritation of the skin, eyes, and respiratory tract.

#### **ENVIRONMENTAL HAZARDS**

No significant hazards.

**NOTE:** This material should not be used for any other purpose than the recommended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

# SECTION 3 COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

This material is defined as a mixture.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
2-ETHYLHEXANOIC ACID, SODIUM SALT	19766-89-3	< 3.0%	H361(D)
DISODIUM TETRABORATE PENTAHYDRATE	12179-04-3	< 1.0%	H319(2A), H360(1B)(D), H360(1B)(F)
ETHYLENE GLYCOL	107-21-1	90 - < 100%	H302, H373

Note - any hazard code in brackets [Hxxx] is a GHS building block that was not adopted by Malaysia in the CLASS Regulation and therefore is not applicable in Malaysia and is shown for informational purposes only.

## SECTION 4 FIRST AID MEASURES

## INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

#### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

## **EYE CONTACT**

Flush thoroughly with water. If irritation occurs, get medical assistance.

## **INGESTION**

Seek immediate medical attention.

### **NOTE TO PHYSICIAN**

This product contains ethylene glycol and/or diethylene glycol which, if ingested, are metabolized to toxic

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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metabolites by the enzyme alcohol dehydrogenase, for which ethanol and 4-methylpyrazole \{U.S. drug name Fomepizole, trade name Antizol\} are antagonists. Administration of oral or intravenous ethanol or intravenous 4-methylpyrazole may arrest further metabolism of this material and thereby ameliorate the toxicity. Use of ethanol or 4-methylpyrazole does not affect toxic metabolites that are already present and is not a substitute for hemodialysis.

#### SECTION 5 FIRE FIGHTING MEASURES

#### **EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water or standard foam

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. 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.

**Unusual Fire Hazards:** Hazardous material. Firefighters should consider protective equipment indicated in Section 9.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume

#### FLAMMABILITY PROPERTIES

Flash Point [Method]: >120°C (248°F) [EN/ISO 2719]

Flammable Limits (Approximate volume % in air): LEL: 4.9 UEL: 14.6

**Autoignition Temperature:** >440°C (824°F) [DIN 51794]

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

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. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 6 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 5 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

## **ENVIRONMENTAL PRECAUTIONS**

Remove debris in path of spill and remove contaminated debris from shoreline and water surface. Dispose of according to local regulations. Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.



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## METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**Land Spill:** Stop leak if you can do so without risk. Do not touch or walk through spilled material. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do so without risk. Material will sink. Remove material, as much as possible, using mechanical equipment.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

## SECTION 7 HANDLING AND STORAGE

## PRECAUTIONS FOR SAFE HANDLING

Avoid breathing mists or vapour. Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

**Static Accumulator:** This material is not a static accumulator.

**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.

## CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Do not store in open or unlabelled containers.

#### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **CONTROL PARAMETERS**

## **EXPOSURE LIMIT VALUES**

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit/St	andard		Note	Source
DISODIUM TETRABORATE PENTAHYDRATE	Inhalable fraction.	STEL	6 mg/m3			ACGIH
DISODIUM TETRABORATE PENTAHYDRATE	Inhalable fraction.	TWA	2 mg/m3			ACGIH
ETHYLENE GLYCOL	Aerosol.	Ceiling	100 mg/m3	39.4 ppm		Malaysia PEL
ETHYLENE GLYCOL	Aerosol, inhalable	STEL	10 mg/m3			ACGIH
ETHYLENE GLYCOL	Vapor fraction	STEL	50 ppm			ACGIH
ETHYLENE GLYCOL	Vapor fraction	TWA	25 ppm			ACGIH



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NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

## **Biological limits**

No biological limits allocated.

#### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

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

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No protection is ordinarily required under normal conditions of use and with adequate ventilation. Particulate

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant gloves are recommended. Nitrile, Viton

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

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Chemical/oil resistant clothing is recommended.

## **ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

## **GENERAL INFORMATION**

Physical State: Liquid Colour: Blue-Green Odour: Odourless Odour Threshold: N/D

## IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 20 °C): 1.12 Flammability (Solid, Gas): N/A

**Flash Point [Method]:** >120°C (248°F) [EN/ISO 2719]

Flammable Limits (Approximate volume % in air): LEL: 4.9 UEL: 14.6

**Autoignition Temperature:** >440°C (824°F) [DIN 51794]

**Boiling Point / Range:** 170°C (338°F) **Decomposition Temperature:** N/D **Vapour Density (Air = 1):** N/D

Vapour Pressure: N/D

Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/D

Log Pow (n-Octanol/Water Partition Coefficient): N/D

**Solubility in Water:** Complete **Viscosity:** [N/D at 40 °C]

Oxidizing Properties: See Hazards Identification Section.

## OTHER INFORMATION

Freezing Point: N/D Melting Point: N/D

## SECTION 10 STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**INCOMPATIBLE MATERIALS:** Strong Acids, Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

## **INFORMATION ON TOXICOLOGICAL EFFECTS**

Hazard Class	Conclusion / Remarks
Inhalation	



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Acute Toxicity: No end point data for Minimally Toxic. Based on assessment of the components.

Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		
material.			
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.		
Ingestion			
Acute Toxicity (Human): LDLo 100 ml	Moderately toxic. Based on assessment of the components.		
Skin			
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		
material.			
Skin Corrosion/Irritation: No end point data	Negligible irritation to skin at ambient temperatures. Based on		
for material.	assessment of the components.		
Eye			
Serious Eye Damage/Irritation: No end point	May cause mild, short-lasting discomfort to eyes. Based on		
data for material.	assessment of the components.		
Sensitisation			
Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.		
for material.			
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.		
Aspiration: No end point data for material.	Not expected to be an aspiration hazard. Based on physico-		
	chemical properties of the material.		
Germ Cell Mutagenicity: No end point data	Not expected to be a germ cell mutagen. Based on assessment of		
for material.	the components.		
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on assessment of the		
material.	components.		
Reproductive Toxicity: No end point data	Contains a substance that may be a reproductive toxicant. Based		
for material.	on assessment of the components.		
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.		
Specific Target Organ Toxicity (STOT)			
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.		
Repeated Exposure: No end point data for material.	Contains a substance that may cause damage to organs from prolonged or repeated exposure. Based on assessment of the components.		

## OTHER INFORMATION

## For the product itself:

Target Organs Repeated Exposure: Kidney

## Contains:

ETHYLENE GLYCOL (EG): Repeated high oral exposure has caused kidney damage, neurological effects, degeneration of the liver and changes in blood chemistry and circulating blood cells in laboratory animals. Repeated overexposure has the potential to cause similar toxic effects in humans. EG causes developmental and reproductive effects at high dose levels in laboratory animals. The relevance of these findings to humans is uncertain. Sodium tetraborate: Adverse effects on fertility and fetal development have been observed in laboratory animals.

## IARC Classification:

The following ingredients are cited on the lists below: None.



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## SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

#### **ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

## **MOBILITY IN SOIL**

Material -- Expected to remain in water or migrate through soil.

### PERSISTENCE AND DEGRADABILITY

**Biodegradation:** 

Material -- Expected to be readily biodegradable.

**Atmospheric Oxidation:** 

Material -- Expected to degrade rapidly in air

#### **BIOACCUMULATIVE POTENTIAL**

Material -- Potential to bioaccumulate is low.

#### OTHER ADVERSE EFFECTS

No adverse effects are expected.

## SECTION 13 DISPOSAL INFORMATION

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL METHODS**

Even though this product is readily biodegradable, it must not be indiscriminately discarded into the environment. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

## REGULATORY DISPOSAL INFORMATION

## Environmental Quality (Scheduled Wastes) Regulations 2005 waste code: SW 305

Note: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s); This material is considered as hazardous waste pursuant to Environmental Quality (Scheduled Wastes) Regulations 2005.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.



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## THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## SECTION 14 TRANSPORT INFORMATION

**LAND**: Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

## SECTION 15 REGULATORY INFORMATION

This material is hazardous as defined by the Occupational Safety and Health (Classification, Labeling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

## REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories: IECSC, KECI, PICCS, TCSI, TSCA

### **Special Cases:**

Inventory	Status
AIIC	Restrictions Apply
ENCS	Restrictions Apply

## **National Laws and Regulations:**

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000

Occupational Safety and Health (Control of Industrial Major Accident Hazards) Regulation 1996

#### SECTION 16 OTHER INFORMATION

## List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

AcronymFull textN/ANot applicableN/DNot determinedNENot established

VOC Volatile Organic Compound

AIIC Australian Inventory of Industrial Chemicals

AIHA WEEL American Industrial Hygiene Association Workplace Environmental Exposure Limits

ASTM ASTM International, originally known as the American Society for Testing and Materials (ASTM)

DSL Domestic Substance List (Canada)

EINECS European Inventory of Existing Commercial Substances

ELINCS European List of Notified Chemical Substances

ENCS Existing and new Chemical Substances (Japanese inventory)

IECSC Inventory of Existing Chemical Substances in China



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KECI Korean Existing Chemicals Inventory
NDSL Non-Domestic Substances List (Canada)
NZIOC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances

TLV Threshold Limit Value (American Conference of Governmental Industrial Hygienists)

TSCA Toxic Substances Control Act (U.S. inventory)

UVCB Substances of Unknown or Variable composition, Complex reaction products or Biological materials

LC Lethal Concentration

LD Lethal Dose
LL Lethal Loading
EC Effective Concentration
EL Effective Loading

NOEC No Observable Effect Concentration NOELR No Observable Effect Loading Rate

## KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H302: Harmful if swallowed; Acute Tox Oral, Cat 4

H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A H360(1B)(D): May damage the unborn child; Repro Tox, Cat 1B (Develop)

H360(1B)(F): May damage fertility; Repro Tox, Cat 1B (Fertility)

affiliates in which they directly of indirectly hold any interest.

H361(D): Suspected of damaging the unborn child; Repro Tox, Cat 2 (Develop)

H373: May cause damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 2

## THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

HT LUBRICANT SENDIRIAN BERHAD (646137-M): Section 01: Supplier Mailing Address information was modified. MOBILUB TRADING SENDIRIAN BERHAD (514125-H): Section 01: Supplier Mailing Address information was modified.

OPTIMUM FLUIDS MARKETING SENDIRIAN BERHAD (668909-D): Section 01: Supplier Mailing Address information was modified.

TIMUR LUBE SDN. BHD. (806793-H): Section 01: Supplier Mailing Address information was modified.

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