

ZERFLO 68**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

Product Name **ZERFLO 68**

Manufacturer: PETRON CORPORATION
JESUS ST., PANDACAN, MANILA
PHILIPPINES

Product Type Petroleum Hydrocarbons with Additives

Recommended Use Refrigeration Oil

Telephone No. (02) 8-884-9200

Website www.petron.com

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Not Classified as Hazardous Substance

GHS LABELING

Pictogram No symbol

Signal Word No signal word

Hazard Statement No hazard statement

Other Hazard Information:

Health Hazards Not expected to be a health hazard when used under normal conditions.

Physical / Chemical Hazards No significant hazards.

Environmental Hazards Not classified as dangerous to the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition	CAS Number	% Weight
Hydrotreated oil	Mixture - NA	95.0 – 99.0

SECTION 4: FIRST AID MEASURES

Eye Contact Immediately flush eyes with large amount of water for at least 15 minutes or until irritation subsides. If irritation persists, get prompt medical attention.

Skin Contact Immediately flush with large amount of water; use soap if available. Remove contaminated clothing and shoes, and launder before reuse.

Inhalation This product is not expected to present an inhalation problem at ambient temperature. However, if overexposed to oil mist, using proper respiratory protection, immediately remove the affected person immediately to fresh air. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.



Ingestion If swallowed, DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get immediate medical attention. DO NOT attempt to give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point, COC, °C 216

Extinguishing Media In case of fire use foam, carbon dioxide or dry chemical extinguishers.

Special Fire-fighting Procedures Water jets should not be used directly on igniting products. Avoid spraying water directly into storage containers due to danger of over-boil. However, water may be used to cool exposed containers, structures and equipment adjacent to fire. Respiratory and eye protection required for fire-fighting personnel.

Decomposition Products Under Fire Conditions Fumes, smoke, oxides of sulfur, nitrogen, carbon and other toxic gases may be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill Taking normal safety precaution, eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills, implement cleanup procedures. For large spills, implement clean-up procedures and, if in public area, keep public away and advise authorities. Prevent liquid from entering sewers, water courses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with a suitable absorbent. If liquid is too viscous for pumping, scrape up. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Water Spill Use booms to confine spills immediately. Remove from water surface by skimming or with suitable adsorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7: HANDLING AND STORAGE

Handling Procedures Keep away from potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Wash thoroughly after handling. "Empty" containers with retained product residue (liquid or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause death or injury. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed off.

Storage Procedures Do not store near potential sources of ignition. Store in a well-ventilated area. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 60°C for extended periods of time or if heat sources in excess of 70°C are used.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

The following are the exposure limits for the major components of this product (when mists/aerosol may occur).



Component	CAS-No.	Source	Value
Hydrotreated oil	Mixture – N/A	No data	No data

Personal Protection

Ventilation Procedures	The use of local exhaust ventilation is recommended to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below exposure limits.
Hand Protection	Use chemical resistant gloves.
Eye Protection	Where contact may occur, wear safety glasses with side shields.
Respiratory Protection	Use NIOSH/OSHA approved full-face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Clothing Recommendation	Wear either a chemical protective suit or apron when potential for contact with material exists. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Odor	Characteristic of petroleum products
Kinematic Viscosity at 40°C, cSt	67.93
Kinematic Viscosity at 100°C, cSt	7.542
Density at 15 °C, kg/L	0.8934
Flash Point, °C	216
pH	No data
Boiling Point, °C	No data
Melting Point, °C	No data
Vapor Pressure, kPa	No data
Vapor Density	No data
Solubility in Water	Insoluble
Evaporation Rate	No data
Flammability	Non flammable
Partition Coefficient	No data
Auto-ignition Temp, °C	No data
Decomposition Temp, °C	No data
Explosion limits	No data

SECTION 10: STABILITY AND REACTIVITY

Stability	This product is stable and hazardous polymerization will not occur.
Incompatibility	Strong oxidizing agents



Polymerization Not Applicable

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Distillates (Petroleum)
Hydrotreated heavy
paraffinic

Oral, LD50	>5000 mg/kg (Rat)
Dermal, LD50	>5000 mg/kg (Rabbit)
Inhalation, Mist LC50	5 mg/L 4hr (Rat)

Skin Corrosion/Irritation Low order of toxicity. Frequent or prolonged contact may cause mild skin discomfort.

Respiratory/Skin Sensitization Not expected to be sensitizer

Germ Cell Mutagenicity No available information

Aspiration Hazard Minimal toxicity

Carcinogenicity No available information
Reproductive Toxicity No relevant data identified from the literature searched.

Specific Target Organ Toxicity Avoid breathing vapor or mists. Repeated and prolonged over-exposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity No data

Chronic Toxicity No data

Environmental Mobility Oil component of this product floats and can migrate from water to land.

Environmental Degradability Data have not been determined specifically for this product, but it is not expected that it will be "readily" biodegradable.

Ecotoxicity & Bioaccumulation Data have not been determined specifically for this product, but it is expected to be harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Material, if discarded, is expected to be hazardous waste due to toxicity. Waste management should be in compliance with local and national regulations.

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SECTION 14: TRANSPORT INFORMATION

Land This product is not regulated for road/rail transport.



Sea IMDG (Packaged Goods and BLCs). This product is not regulated for sea transport.

Air (ICAO/IATA). This product is not regulated for air transport.

SECTION 15: REGULATORY INFORMATION

Material is non-hazardous under Occupational Safety and Health (Classification, Labeling, and Safety Data Sheet of Hazardous Chemical) Regulations 2013.

The Chemical Substances present in this product are listed under Philippine Inventory of Chemicals and Chemical Substance (PICCS).

SECTION 16: OTHER INFORMATION

Approvals Research and Development Department
Petron Corporation

This safety data sheet contains the following revisions **6**

This is a computer-generated form and does not require a signature.

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