

ZERFLO SX 55**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

Product Name	ZERFLO SX 55
Synonyms/Trade Name:	-
Product Type	Hydrocarbons with Additives
Recommended Use	Refrigeration Oil
Company Information	PETRON CORPORATION San Miguel Head Office Complex 40 San Miguel Avenue, Mandaluyong City PHILIPPINES
General Contact Numbers	(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
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	>90

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, including shoes, and launder before reuse.
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.
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.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point, COC, °C	208
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 boil-over. 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.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Controls

Composition	CAS Number	VALUE
Mixture of severely hydrotreated and hydrocracked base	-	ACGIH – 5mg/m ³ (TLV-TWA) OSHA Z-1 – 5mg/m ³ (PEL)

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.
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.
Hand Protection	Use chemical resistant gloves.
Eye Protection	Where contact may occur, wear safety glasses with side shields.
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	58.40
Kinematic Viscosity at 100°C, cSt	6.555
Density at 15°C, kg/L	0.9081



Flash Point, °C	208
pH	No data
Boiling Point, °C	>260°C
Melting Point, °C	No data
Vapor Pressure, mm Hg @ 20°C	<1
Vapor Density	>1
Solubility in Water	Insoluble
Evaporation Rate	No data
Flammability	Not flammable
Partition Coefficient	No data
Auto-ignition Temperature, °C	354°C
Decomposition Temperature, °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	Not acutely toxic.
Skin Corrosion/Irritation	Low order of toxicity. Frequent or prolonged contact may cause mild skin discomfort.
Serious Eye Damage/Irritation	Will cause eye discomfort; may injure eye tissue if not removed promptly
Respiratory/Skin Sensitization	There was no evidence of skin sensitization when the product was applied to human skin.
Germ Cell Mutagenicity	No available information
Aspiration Hazard	Minimal toxicity
Carcinogenicity	The petroleum base oils contained in this product have been highly refined through a variety of processes including severe hydrocracking, because of this, this product and/or its components are not considered carcinogenic by NTP, IARC or OSHA.
Reproductive Toxicity	No available information
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

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

Air	(ICAO/IATA). This product is not regulated for air transport.
Land	This product is not regulated for road/rail transport.
Sea	IMDG (Packaged Goods and BLCs). This product is not regulated for sea transport.

SECTION 15: REGULATORY INFORMATION

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

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

SECTION 16: OTHER INFORMATION

Approvals	Research and Development Department Petron Corporation
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This safety data sheet contains the following revisions: **0**

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