

Material Safety Data Sheet (MSDS)

Paramount Steam Turbine Oil 68 (TUR5005),

1. Chemical and Company Identification

Trade Name	Steam Turbine Oil 46
Product Code	TUR5005
Manufacturer/Supplier	Paramount Oil Trading FZE, PO Box 42826, Hamriya Free Zone, Sharjah – United Arab Emirates
Routine Enquiries	+971-6-7433099
Fax	+971-6-7433094
Emergency Contact (24 Hours)	+971 6 7433099
Chemical Description	Lubricating Oils Steam Turbine Oil

2. Composition and Ingredients

Components	CAS No.	Range in %
Base Oil – Semi Synthetic Hydrocarbon Group II	6474-25-47	0 - 99
Alkylated diphenylamines N Phenyl-1-Naphthylamine	90-30-2	<0.15 <0.05 -0.15
4-nonylphenoxy) acetic acid Isomeric mixture of methylamines	3115-49-9 80584-90-3	<0.05 <0.05

3. Hazards Identification

Warning Statements	NO SIGNIFICANT HAZARD
Eyes	Not expected to cause eye irritation following short-term exposure
Oral	If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur
Inhalation	Breathing the vapor or mist at concentrations in air that exceed the ACGIH TLV can cause respiratory irritation or discomfort
Skin	Expected to cause no more than minor skin irritation. Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the de fatting action of this material. Prolonged or repeated skin contact may be harmful
Long Term Toxic Effects	The base oil component(s) are not expected to be carcinogenic based on IARC Criteria. This product has not been listed as a whole for chronic health effects. See Section 11 for additional information

4. First Aid Measures

Eyes	Flush eyes immediately with fresh water for several minutes while holding the eyelids open. If irritation persists, see a doctor
Skin	Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms' described in this MSDS occur. Launder contaminated clothing
Ingestion	If swallowed and person is conscious, give water or milk. DO NOT make person vomit except on advice of medical personnel. If advice cannot be obtained, take person with container and label to nearest emergency treatment center. Never give anything by mouth to an unconscious person
Inhalation	If respiratory irritation or any signs or symptoms as described in this MSDS occur, mover the person to fresh air. If any of these effects continue, see a doctor
Advice to Doctor	None applicable

5 Fire Fighting Measures

Ignition Temperature, deg C	Not determined
Flammable Limits (% by Volume)	Not determined
Flash Point, deg C	226 C
Fire Extinguishing Agents	According to the US National Fire Protection Association Guide, use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop the leak
Explosion Hazards	For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency

6 Accidental Release Measures

In case of Spill	Stop the source of the leak or release and contain spill if possible. Ventilate the area. Use respirator and protective clothing as discussed in this MSDS. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. Prevent contamination of groundwater or surface water
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7 Handling and Storage

Handling and Storage	Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. Misuse of empty containers can be hazardous. DO NOT cut, weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.
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8 Exposure Control/Personal Protection

Eyes	No special eye protection is usually necessary
Skin	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least weekly.
Inhalation	Respiratory protection is normally not required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator
Ventilation	Use adequate ventilation to keep the airborne concentrations of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/or enclosure of the processes is preferred in these cases
Exposure Limits	The ACGIH TLV for mineral oil mists is 5 mg/m ³ for a daily 8 – hour exposure.

9 Physical and Chemical Properties

Note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative

Appearance and Odor	Pale Yellow liquid.
Boiling Point	Not determined
Vapor Pr (mmHG @ 25 deg C)	Not determined
Density(kg/l at 15 deg C)	0.85 – 0.90
Vapor Density (Air=1)	Not determined
Undiluted product's pH	Not applicable
Solubility in Water	Negligible
Percent Volatile by Volume	Not determined
Evaporation	Not determined
Viscosity	8 - 9 mm ² /s at 100 deg C (ISO VG 68)

10 Stability and Reactivity

Hazardous Polymerizations	DO NOT OCCUR
Products of Combustion	Carbon monoxide, carbon dioxide, and aldehydes and ketenes may be formed. Combustion products of nitrogen and sulfur
Conditions to Avoid	Strong oxidizers as chlorates, nitrates, peroxides etc and heat

11. Toxicological Information

General	This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, hydro cracking and hydro treating. These oils have not been listed in the US National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans.
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12. Ecological Information

Environmental Effects	No specific toxicology data on this product is available. This product may present environmental risks common to oil spills
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13. Disposal Considerations

Waste Disposal	Place contaminated materials in disposable containers and dispose off in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material
Remarks	This material may present environmental risks common to oil spills. Contact your local oil spill response group and applicable government agencies if a spill occurs.

14. Transport Information

Transportation of Dangerous Goods	
UN Number	Not Applicable
Dangerous Goods Class	Not Applicable
Proper Shipping Name	Not applicable
Hazchem Code	Not applicable
Additional Information	None Determined

15. Regulatory Information

Respirator Information	In the absence of local approval authorities/standards, follow US NIOSH/MSHA, UK BSI regulations. Respirators must meet either the above or local standard for approved respirators
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16. Other Information – No specific notes on this product.

<p>To the best of our knowledge, the information provided in this MSDS document is correct. Access to this information is being provided via the internet too so that it can be made available to as many potential users as possible. We do not assume any liability for consequences of the use of this information since it may be applied under conditions beyond our control or knowledge. Also, it is possible that additional data could be made available after this MSDS was issued. Certain hazards are described herein; however, these may not be the only hazards that exist. All materials may present unknown hazards and should be used with caution.</p> <p>Customers are encouraged to review this information, follow precautions and comply with all applicable laws and regulations regarding the use and disposal of this product. For specific technical data or advice concerning this product as supplied in your country please contact your local sales representative. The final determination of the suitability of any material is the sole responsibility of the user.</p>
