

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION AND COMPANY

Product Name : PETRO TURBINE 46

Product Type : PREMIUM INDUSTRIAL TURBINE OIL

Company : KAWASAN PERKANTORAN ALAM SUTERA TOWN

CENTER, BLOK 10H NO.18 TANGERANG.

Tlp : (021) 292 11 565 Fax : (021) 292 11 566

2. COMPOSITION

Mineral Oil Cntent 95 % Additives Content 5 %

3. HAZARDS IDENTIFICATION

Human Health Product is not hazardous

Eye Contact Slightly irritant

Skin Contact Prolonged or repeated contact may irritate skin Inhalation Repeated and repeated contact may irritate skin

Ingestion Minimal toxicity

Safety Hazards Not classified as flammable but will burn

Environmental Not readily biodegradable

Hazards



4.	FIRST AID	
	Eye Contact	Flush eyes with large amount of water until irritation subsides. If irritation persists, get medical attention
	Skin Contact	Flush with large amount of water, use soap if available. Remove contaminated clothing. If irritation persists, get medical attention.
	Inhalation	Remove to fresh air. If rapid recovery does not occur, get medical attention
	Ingestion	Do not induce vomiting. If rapid recovery does not occur, get medical attention

5.	FIRE SAFETY	
	Flash Point	>170°C
	Flammable Limits	LEL 1.0
		UEL 6.0
	Autoignition Temp	>220°C
	Specific Hazards	Not classified as flammable but will burn. Hazardous combustion product may include carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds
	Fire Fighting	Use dry chemical, foam or carbon dioxide to extinguish fire. Water may cause splattering or frothing. Use water to cool and protect fire-exposed material. Wear protective equipment during fire fighting

6. ACCIDENTAL RELEASE MEASURES

Clean-up Procedures Stop the source of leak or realease and contain spill if possible. Cover spill with generous amount of inert absorbent material such as sand of earth Sweep up and remove to suitable, clearly marked containers for disposal in accordance with local regulations. Scrub contaminated area with detergent and water. Pick up liquid with additional absorbent material and dispose as above. Wear proper protective equipment during clean-up



7. HAN	NDLING AND ST	TORAGE
Hand	dling F	Handling temperatures should not exceed 70°C. Wear proper safety protective equipment. Wash hands thoroughly after handling. Water contamination and spillage should be avoided.
Stor	age	Storage temperatures should be maintained between 0 to 50°C. Odorous and toxic fumes may be evolved from decomposition of product if stored above the safe temperature.

8.	EXPOSURE CONTROL/PERSONAL PROTECTION	
	Exposure Limits	Threshold Limit Values for oil mist is recommended to be controlled at 5 mg/m ³ or lower for exposure of 8 hours daily
	Ventilation	Use exhaust ventilation to keep below exposure limits
	Eye Protection	Wear safety glasses or face shields if splashing is likely to occur Skin
	Protection	Avoid repeated and prolonged contact with product. Use oil resistant gloves
	Respiratory	Not normally required unless in confined
	Protection	
	Body Protection	Use proper protection equipment to avoid contact. Wear PVC apron i if splashes are likely to occur

Physical State	Liquid
Colour	Clear & Bright
Odour	Characteristic mineral oil
Vapour Pressure	<0.5 Pa at 20°C
Density	0.874 g/cm ³ at 15°C
Kinematic Viscosity @ 40°C	46 cSt
Kinematic Viscosity @ 100°C	6,9 cSt
Pour Point	-18 ºC
Flash Point	222 ℃
pH of undiluted product	Not available
Auto-ignition temperature	>220°C
Solubility in water	Negligible



10.	STABILITY AND	REACTIVITY
	Stability	Product is stable under normal use conditions
	Thermal	Carbon monoxide, carbon dioxide, oxides of sulphur and nitrogen
	Decomposition	organic and inorganic compound may evolve when subject to heat or combustion
	Hazardous	Will not occur undeer normal conditions
	Polymerisation	
	Incompatible	Strong oxidizing agents. Strong acids
	Materials	

Basis	No toxicological data is available for this product. Information is provided based on the addtives, other components and base stock used
Acute Exposure - Oral	LD 50 expected to be above 2000 mg/kg.
Acute Exposure - Skin	LD 50 expected to be above 2000 mg/kg.
Inhaltion Eye Irritation	Repeated or prolonged exposure to oil mists may cause irritation Slight irritant
Skin Irritation Respiratory Irritation	Not a skin irritant unless repeated or prolonged contact Slight irritant
Carcinogenicity Mutagenicity Other Information	No data to suggest that product is carcinogenic No data to suggest that product is mutagenic Brief contact with used oil is not expected to have serious effect in humans if he oil is removed thoroughly by washing with soap and water
	Used engine oils may contain harmful impurities that have accumulate during use. The concentration of such impurities will depend on use and they present risks to health and the environment on disposal. All used oils—should be handled with caution and sk contact should be avoided



12.	ECOLOGICAL INFORMATION	
	Basis	No ecological data is available for this product. Information is provided base on the additives, other components and base stock used.
	Mobility	Liquid under most environmental conditions. Floats on water. It is absorbeb by soil and will not be mobile
	Persistance/	Not readily biodegradable. Major constituents are expected to be inherently Degradability be inherently biodegradable, but the product contains components that may persist in the environment
	Bioaccumulation	Has the potential to bioaccumulate
	Ecotoxicity	Poor soluble mixture. Practically non-toxic to aquatic organisms. May caused physical fouling of aquatic organisms

13.	DISPOSAL CONSID	ERATION
	Product Disposal	Used or waste oil should be recycled or disposed off in conformity to local disposal regulations. Contact local authorities for approved disposal contractor
	Container Disposal	Empty drums should be completely drained and sent to a drum reconditioner or properly disposed of. Non-reusable small containers should be recycled ordisposed of. Ensure conformity to local disposal regulations.

14.	TRANSPORT INFOR	MATION
	General Information	Not dangerous for conveyance under UN, IMO, ADR/RID and IATA.ICAO codes

15.	REGULATORY INFORMATION
	Not Applicable.

16. OTHER INFORMATION

The above information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be unfamiliar and since data made available susequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the result of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. Therefore, no warranty either expressed or implied of merchantability or fitness for particular purpose is made with pespect to the product or the information contained herein.