



INDIAN OIL CORPORATION LTD.

MATERIAL SAFETY DATA SHEET

MSDS No. : PDD/22/0059

PRODUCT NAME: SERVO 4T 20W50

PRODUCT CODE: 2931

PRODUCT USE: Engine oil for four stroke motorcycles

SECTION 1

MANUFACTURER'S NAME :-		INDIAN OIL CORPORATION LTD.	
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	DATE PREPARED: 09-09-2022		
	VERSION NUMBER: 03		

SECTION 2 HAZARDS IDENTIFICATION

HEALTH EFFECTS	The product holds no danger of intoxication under normal use. May cause sensitization.
ENVIRONMENTAL IMPACT	Not to be discharged in to the environment.
PHYSICO-CHEMICAL HAZARDS	Under normal conditions of use, product does not hold any special risk of fire or explosion.

SECTION 3 - CHEMICAL PRODUCT IDENTIFICATION

HAZARDOUS INGREDIENTS INFORMATION

Chemical Nature : Product is a "Petroleum derived severely refined mineral oil based product", in which PAH content is less than 3%wt (measured by IP 346)" -

COMPONENT	CAS No.	Content , % wt.
Basestock	64742-70-7	> 86 %
Additives	Proprietary	< 14 %

SECTION 4 FIRST AID MEASURES

ROUTES OF ENTRY	INHALATION	SKIN	INGESTION
	Not at room temperature	Absorbed through skin only on prolong contact	Through unwashed hands or deliberately
CARCINOGENICITY	NTP	IARC MONOGRAPHS	OSHA REGULATED
	No	NE	NE
HEALTH HAZARD	Acute eye irritation studies (rabbit) Acute skin irritation studies (rabbit) Acute oral toxicity (LD-50) Toxicity to fresh water fish (LC- 50)		NE
SIGNS AND SYMPTOMS OF EXPOSURE	EYES SKIN INHALATION INGESTION	Not expected to cause irritation Irritation, long-term contact may lead to dermatitis. May not affect respiration at room temperature. May lead to gastro-intestinal irritation.	
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	None		
EMERGENCY AID FIRST AID PROCEDURES	EYES SKIN INHALATION INGESTION ASPIRATION	Flush with plenty of water, seek medical aid if discomfort persists. Flush with plenty of water, seek medical aid if discomfort persists . Remove to fresh air , restore breathing if required , medical aid is necessary. Do not induce vomiting . If the product is believed to have entered the lungs as it can be when vomiting, take the person to hospital for immediate medical attention.	

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SECTION 5 FIRE FIGHTING MEASURES			
FLASH POINT °C MIN. (COC)	200		
FLAMMABLE LIMITS	NA		
EXTINGUISHING MEDIA	dry chemicals, foam, carbon di-oxide		
SPECIAL FIRE FIGHTING PROCEDURE	Wear Appropriate BIS / NIOSH/MSHA approved pressure demand respirator recommended.		
UNUSUAL FIRE AND EXPLOSION HAZARD	Do not pressurize, cut ,weld, braze empty drum which may contain ignitable residue .		
NFPA HAZARD IDENTIFICATION	HEALTH 0	FLAMMABILITY 1	REACTIVITY 0

SECTION 6 ACCIDENTAL RELEASE MEASURES	
PERSONAL PROTECTION	No special requirement under ordinary conditions of use and with adequate ventilation. Remove source of ignition. Do not smoke.
SPILL MANAGEMENT	FOR LARGE SPILLS; Remove with or pump to storage/slop tanks. FOR SMALL SPILLS; Soak the residue with absorbent like clay, sand or any other suitable material and store it in a tightly sealed non-leaky container for proper disposal. SPILLAGE ON WATER; Mechanical recovery. Notify the authorities concerned if spilled in rivers or sewers.

SECTION 7 HANDLING AND STORAGE	
HANDLING	
PREVENTION OF USER EXPOSURE	Ventilate extensively if the formation of vapour or mist is a risk. Reduce exposure risk to products in use or even wastes. Keep away from combustible materials. Keep away from food & beverages
PREVENTION OF FIRE&EXPLOSION	Empty containers which may contain flammable vapours, rags & papers used for removing spills should not be accumulated but disposed off safely after use..
PRECAUTIONS	Avoid build up of static electricity. Avoid risk of accidental spills over hot machine parts and electrical contacts.
STORAGE	
PREVENTIVE MEASURES	Make necessary arrangements to prevent water and soil pollution.
PRECAUTIONS	Store at room temperature. Protect against water/moisture and source of ignition. Keep containers closed when not in use.
INCOMPATIBLE PRODUCTS.	Strong reaction with oxidizing agents.
PACKAGE MATERIALS	Use only hydrocarbon resistant containers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
RESPIRATORY PROTECTION	No special requirement under ordinary conditions of use and with adequate ventilation.
VENTILATION	No special requirement under ordinary conditions of use and with adequate ventilation.
PROTECTIVE GLOVES	Neoprene gloves.
EYE PROTECTION	Splash proof goggles.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	Keep exposed skin covered
WORK/ HYGIENIC PRACTICES	Wash contaminated clothes before reuse .Wash hands with soap and water before smoking , eating , drinking or using toilet .One should minimize dermal and inhalation exposure to this product.
END USE	For 4-Stroke Motorcycles



SECTION 9 :- PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT °C	NA	DENSITY AT 15°C, gm/ml	
VAPOR PRESSURE mm Hg	Nil at ambient temperature	MELTING POINT	NA
VAPOR DENSITY(Air=1)	No Data	EVAPORATION RATE	No Data
SOLUBILITY IN WATER	Insoluble	PH	NA
APPEARANCE	Clear & Bright	ODOUR	Mild characteristic
COLOUR	Light Brown	AUTOIGNITION TEMP	NA
VOLATILITY	Nil at ambient temperature	EXPLOSIVE PROPERTIES	NA
FLASH POINT °C MIN. (COC)	180	KINEMATIC VISCOSITY AT 100°C CST	17.50-19.50

SECTION 10 REACTIVITY AND STABILITY

STABILITY	UNSTABLE	STABLE Yes, under normal temperature of storage
CONDITIONS TO AVOID	Strong oxidizing agents, heat , open flame	
INCOMPATIBILITY WITH	NA	
HAZARDOUS DECOMPOSITION OR BYPRODUCT	CO and Nitrogen Oxides on incomplete combustion may be produced,	
HAZARDOUS POLYMERIZATION	MAY OCCUR	WILL NOT OCCURE Yes

NA = Not Applicable

NE = Not Established

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity/Local effect :	
Inhalation, comments	Risk is improbable under normal conditions of use Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
Skin contact, comments	Risk is improbable under normal conditions of use
Ingestion, comments	In case of ingestion of small quantities, no adverse effect observed in case of ingestion of larger amounts: abdominal pain diarrhea
Skin Contact:	Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing.
Sensitization :	May cause an allergic reaction
Carcinogenicity	During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application continuous exposure. Brief of intermittent skin contact with used motor oil is not expected to have serious effects in human if the oil is thoroughly removed by washing with soap and water.

SECTION 12 : ECOLOGICAL INFORMATION

Comments about ecotoxicity:	Experimental data on the finished product are not available. It is considered to present a little danger of aquatic life No information available for used product
Mobility	Air : There is a slow loss by evaporation Soil : Given its physical and chemical characteristics, the product generally shows little mobility in the ground.



	Water : The product is insoluble: it spreads on the surface of the water.
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SECTION 13 : DISPOSAL CONSIDERATIONS

Disposal:	This product may be recycled, if unused or unsuitable for intended use due to contamination. It may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options are suitable, consider for disposal in a safe manner, in accordance with local regulations.
Waste Class	The waste classification is dependant on the composition of the product at the time of disposal. The waste producer is responsible for the correct specification of the waste.
Disposal of contaminated packaging	Proceed in compliance with the prevailing regulations

SECTION 14 : TRANSPORT INFORMATION

UN NO not applicable:	This product is not classified as Dangerous good by IATA, IMO-IMDG criteria. No special transport conditions are necessary unless required by other regulations
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SECTION 15 REGULATORY INFORMATION

Risk Phrases:	None
Safety Phrases	None
Other	None

SECTION 16 OTHER INFORMATION

Revision Number and date	03, 09-09-2022
Supersedes the data sheet of:	2022
Safety Data Sheet Status	Approved

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ACRONYMS:

BIS Bureau of Indian Standards	CAS number Chemical Abstracts Service Registry Number
IARC International Agency for Research on Cancer	LC50 Lethal Dose
LD50 Lethal Concentration	MSHA Mine Safety and Health Administration
NA Not Applicable	NE Not Established
NIOSH National Institute of Occupational Safety & Health	NTP National Toxicology Program (USA)
OSHA Occupational Safety and Health Administration	UN Number United Nations Number

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