PRODUCT DESCRIPTION: Base oils & additives

SECTION 1

MANUFACTURER'S NAME :- INDIAN OIL (CORPORATION LTD.
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ADDRESS:-	EMERGENCY TELEPHONE NUMBER
Marketing Division,	91-022-26423272
G 9, Ali Yavar Jung Marg,	TELEPHONE NUMBER FOR
Bandra (East),	INFORMATION
Mumbai 400 051	91-022-26400926
	Tele Fax: 91 022 26427046
	DATE PREPARED / April 20 th , 2013

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

No reportable hazardous substance(s) or complex substance(s)

SECTION 3: 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 4: FIRST AID MEASURES

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

SECTION 5: FIRE FIGHTING MESURES

FLASH POINT ^O C MIN. (COC)	>150		
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	FLAMMABILITY	REACTIVITY
	0	0	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	FOR LARGE SPILLS; Remove with or pump to storage/slop tanks.
MANAGEMENT	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	Ventilate extensively if the formation of vapour or mist is a risk. Reduce
USER EXPOSURE	exposure risk to products in use or even wastes.
	Keep away from combustible materials. Keep away from food & beverages
PREVENTION OF	Empty containers which may contain flammable vapours, rags & papers used
FIRE&EXPLOSION	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	Make necessary arrangements to prevent water and soil pollution.
MEASURES	
PRECAUTIONS	Store at room temperature. Protect against water/moisture and source of
	ignition. Keep containers closed when not in use.
INCOMPATABILE	Strong reaction with oxidizing agents.
PRODUCTS.	
PACKAGE	Use only hydrocarbon resistant containers.
MATERIALS	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

SECTION 9: PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT ⁰ C	> 250	DENSITY AT 15°C, gm/ml	0.8797
VAPOR PRESSURE mm Hg	NE	MELTING POINT	NA
VAPOR DENSITY(Air=1)	NE	EVAPORATION RATE	Negligible
		(Butyl Acetate=1)	
SOLUBILITY IN WATER	Not Soluble	PH	NA
APPEARANCE	Liquid	ODOUR	Mild
COLOUR	Amber	AUTO FLAMMABILITY	Does not occur
FLAMMABILITY	NA	EXPLOSIVE	NA
		PROPERTIES	
FLASH POINT ^O C MIN.	>150	KINEMATIC VISCOSITY	20 – 24
(COC)		AT 40 °C CST	

SECTION 10: REACTIVITY AND STABILITY

STABILITY	UNSTABLE	STABLE
		Yes, under normal
		temperature of storage
CONDITIONS TO AVOID	Strong oxidizing agents, heat, open flame	
INCOMPATABILITY WITH	NA	
HAZARDOUS DECOMPOSITION OR	CO and Nitrogen Oxides	on incomplete combustion
BYPRODUCT	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 vapour 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	Used oils have been shown to cause skin cancer in mice following repeated application continuous exposure. Brief of intermittent skin contact with used 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.
SECTION 13 : DISPOSAL CONSIDERATIONS	

Water Disposal:	Dispose 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:	
Road /Rail	Not regulated
Transport by barge	Not regulated
Marine (IMO-IMDG):	Not regulated
Air (ICAO/IATA)	Not regulated

SECTTION 15: REGULATORY INFORMATION

Risk Phrases:	None
Safety Phrases	None
Other	
	- May produce an allergic reaction

SECTION 16: OTHER INFORMATION

Revision date	NA
Supersedes the data sheet of:	NA
Safety Data Sheet Status	Approved

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Supercdes May 2005

For further information please contact:

Technical Services Sept. Indian Oil Corporation Limited,

G-9, Ali Yavar Jung Marg,

Bandra (East), Mumbai – 400 051, INDIA

E mail: tservices@indianoil.co.in OR tech_services@indianoil.co.in