

Certificate of Analysis / Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identity (Trade Name as Used On Label) : **MR MCKENIC**
Product Code : **LU1826**
Description : **HYDRAULIC OIL M46**
Manufacturer's Name : **ISOCHEM INTERNATIONAL PTE LTD**
Manufacturer's Address : **NO: 24, GUL LANE,
SINGAPORE 629418.**
Contact Number : **65-91562887**
Date Prepared : **1ST MAR 2019**

2. MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - CHEMICAL NAME / COMMON NAME	APPROX. % (WT)
MINERAL DISTILLATE (BASE OIL)	90
CALCIUM INHIBITOR	10

3. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance	: Clear Light Amber	Odour	: Oil
Physical State	: LIQUID	Viscosity (@40 ⁰ C, cst)	: 46.0
Boiling Point	: 292.5 ⁰ C	Specific Gravity (H2O = 1)	: 0.88
Vapour Pressure PSIG @ 70 ⁰ F (Aerosols)	: <0.1	Vapour Pressure melting pt	: NA : NA
Solubility In Water	: NEGLIGIBLE	Hazardous Materials	: NONE
Water Content (% wt)	: NONE	Evaporative Rate	: NE
Pour Point	: -27 ⁰ C	Vapor Density	: > 2

4. FIRE AND EXPLOSION HAZARD DATA

Flammability as per USA FLAME PROJECTION TEST (AEROSOLS)	:	NA
Auto Ignition Temperature	:	NA
Flammability Limits In Air % By Volume	:	NA
Flash Point	:	220 ⁰ C
Extinguisher Media	:	DRY CHEMICAL OR FOAM
Special Fire Fighting Procedures	:	WEAR FULL PROTECTIVE EQUIPMENT: EYE/FACE - SHIELD BODY - FULL BUNKER GEAR RESPIRATORY - SCBA COOL CONTAINER WITH WATER SPRAY

5. REACTIVITY HAZARD DATA

Stability	:	STABLE
Conditions To Avoid	:	STRONG HEAT, FLAME, FIRE, SPARKS, ETC...
Incompatibility (Materials To Avoid)	:	ACID, ALKALINE OR STRONG OXIDIZING AGENT
Hazardous Decomposition Products	:	NONE

6. HEALTH HAZARD DATA

Acute Effects

Inhalation	:	MILD IRRITATION
Eye Contact	:	MILD IRRITATION
Skin Contact	:	MILD IRRITATION FOR SENSITIVE SKIN ONLY
Ingestion	:	NONE IF AMOUNT IS NOT SUBSTANTIALLY BIG
Chronic Effects	:	NONE

Medical Conditions - Generally Aggravated By Exposure NONE

7. EMERGENCY FIRST AID PROCEDURES

Eye Contact	:	FLUSH WITH PLENTY OF WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION IF NECESSARY
Skin Contact	:	WASH WITH SOAP AND WATER
Inhalation	:	REMOVE TO OPEN AREA WITH FRESH AIR
Ingestion	:	SEEK MEDICAL ATTENTION

8. CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	:	NORMAL
Protective Gloves	:	RUBBER
Eye Protection	:	GOGGLES
Ventilation Requirements	:	NORMAL
Other Protective Clothing And Equipment	:	NOT APPLICABLE
Hygienic Work Practices	:	WASH HANDS BEFORE HANDLING FOOD

9. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken If Material Is Spilled Or Released :
ABSORB WITH SUITABLE MEDIUM

Other Precautions And / Or Special Hazards:
KEEP OUT OF REACH OF CHILDREN

10. HANDLING AND STORAGE

Storage Temperature:
WELL VENTILATED AREA

Transport Temperature:
AMBIENT

Storage / Transport Pressure:
ATMOSPHERIC

General Information:
STORE IN A WELL-VENTILATED AREA AND AVOID DIRECT SUNLIGHT. KEEP AWAY FROM
OPEN FLAME, SOURCES OF HEAT OR SOURCES OF IGNITION

11. DISPOSAL CONSIDERATION

Waste Disposal Methods:
IN ACCORDANCE WITH NATIONAL AND LOCAL REGULATIONS

12. ECOLOGICAL INFORMATION

THIS PRODUCT WILL EVAPORATE SLOWLY TO THE AIR IF RELEASED INTO THE WATER.

13. TOXICOLOGICAL INFORMATION

Acute Inhalation:
MAY CAUSE HEADACHES

Acute Skin Contact:
LOW ORDER OF TOXICITY

Acute Eye Discomfort:
WILL CAUSE EYE DISCOMFORT

Acute Ingestion :
MINIMAL TOXICITY

14. TRANSPORTATION INFORMATION

Land

THIS PRODUCT IS NOT REGULATED FOR ROAD / RAIL TRANSPORT

Sea

THIS PRODUCT IS NOT REGULATED FOR SEA TRANSPORT

Air

THIS PRODUCT IS NOT REGULATED FOR AIR TRANSPORT

15. REGULATORY INFORMATION

EC Classification

THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS

16. OTHER INFORMATION

THIS MSDS HAVE BEEN REVISED IN MAR 2018 TO PROVIDE MORE INFORMATION

To the best of our knowledge, we believe the statements, technical information and recommendations contained herein are reliable. However, they are given without warranty or guarantee of any kind, express or implied. Users are advised of possible additional danger when the product is used in applications for which it is not intended to. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.