



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME : MAK SPRAYGREASE

PRODUCT TYPE : LUBRICATING GREASE

PRODUCT SUPPLIER : BHARAT PETROLEUM CORPORATION LTD.,
4 & 6, CURRIMBOY ROAD, BALLARD ESTATE,
MUMBAI – 400 001. MAHARASHTRA,
INDIA.

2. PRODUCT/INGREDIENT

Aluminium complex base grease prepared with Petroleum Hydrocarbon Mineral Oil and high performance additives

The chemical identity of some or all the ingredients is confidential business information and is being withheld. In the event of a medical emergency, compositional information will be provided to medical staff.

1. HEALTH INFORMATION

EYE CONTACT : MAY BE MILDLY IRRITATING TO THE EYES

SKIN CONTACT : PROLONGED OR REPEATED CONTACT MAY CAUSE VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS.

INHALATION : NO SPECIFIC INFORMATION IDENTIFIED

INGESTION : NO SPECIFIC INFORMATION IDENTIFIED

SIGNS AND SYMPTOMS	:	IRRITATION AS NOTED ABOVE . LOCAL NECROSIS IS EVIDENT BY DELAYED ONSET OF PAIN AND TISSUE DAMAGE A FEW HOURS FOLLOWING INJECTION.
OTHER HEALTH EFFECTS	:	THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), NATIONAL TOXICOLOGY PROGRAM (NTP) OR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). THIS SPECIFIC PRODUCT HAS NOT BEEN TESTED IN LONG-TERM CHRONIC EXPOSURE TESTS. LUBRICATING GREASES ARE GENERALLY CONSIDERED TO BE OF A LOW ORDER OF ACUTE TOXICITY TO HUMANS AND EXPERIMENTAL ANIMALS. HOWEVER, THE HANDLING PROCEDURES AND SAFETY PRECAUTIONS IN THIS MSDS SHOULD BE FOLLOWED TO MINIMISE EMPLOYEE'S EXPOSURE.

2. EMERGENCY AND FIRST AID MEASURES

EYE CONTACT	:	FLUSH WITH COPIOUS AMOUNT OF WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
SKIN CONTACT	:	REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS OFF. WASH WITH SOAP AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS DAMAGE. DO NOT WAIT FOR SYMPTOMS TO DEVELOP.
INHALATION	:	INHALATION OF FUMES MAY CAUSE THROAT & NOSE IRRITATION. REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION : DO NOT INDUCE VOMITTING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER GET MEDICAL ATTENTION.

3. FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD : 212 °C PMCC (BASE OIL)
FLAMMABLE LIMITS / % VOLUME IN AIR : LOWER: N/AV UPPER: N/AV

EXTINGUISHING MEDIA :

USE WATER FOG, DRY CHEMICAL OR CO₂. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.

SPECIAL FIRE FIGHTING PROCUEDURES AND PRECAUTIONS :

DO NOT ENTER CONFINED FIRE SPACE WITHOUT PROPER PROTECTITVE EQUIPMENT . COOL FIRE EXPOSED CONTAINERS SURROUNDING EQUIPMENT AND STRUCTURES WITH WATER.

4. HANDLING & STORAGE

HANDLING PRECAUTIONS : SPILLED MATERIAL MAY BE SLIPPERY. DO NOT WASH SPILLED MATERIAL INTO DRAINS. AVOID CONTACT WITH EYES. WEAR FACE VISORS WHILE HANDLING HOT MATERIAL. AVOID PROLONGED SKIN CONTACT WASH HANDS WITH SOAP & WATER AFTER HANDLING.

STORAGE CONDITIONS : ALWAYS STORE UNDER COVER AWAY FROM SUNLIGHT AND SOURCES OF IGNITION IN AN UPRIGHT POSITION.

5. PERSONAL PROTECTION

RESPIRATORY PROTECTION : NOT ORDINARILY REQUIRED. USE BREATHING MASKS IF FUMES ARE GENERATED WHILE IN USE

PROTECTIVE CLOTHING : USE OIL RESISTANT GLOVES AND OTHER CLOTHING AS NEEDED TO MINIMIZE SKIN CONTACT.

6. PHYSICAL DATA

PHYSICAL STATE	:	SEMI SOLID
COLOUR	:	GREY BLACK
STRUCTURE	:	SMOOTH HOMOGENEOUS
DROPPING POINT(DEG. C)	:	200 MIN.
WORKED PENETRATION AT 25 DEG C	:	400
SOLUBILITY IN WATER	:	INSOLUBLE

7. REACTIVITY / STABILITY

STABILITY	:	STABLE
HAZARDOUS POLYMERIZATION	:	WILL NOT OCCUR
CONDITIONS AND MATERIALS TO AVOID	:	AVOID HEAT, OPEN FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS	:	THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

8. ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES	:	SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER.
---------------------------------	---	--

9. TRANSPORT HAZARDS

NOT CLASSIFIED AS HAZARDOUS FOR TRANSPORT.

10. REGULATORY INFORMATION

EC Classification	:	Not classified as dangerous under EC criteria.
-------------------	---	--

11. SPECIAL PRECAUTIONS

STORE IN UPRIGHT POSITION IN COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAME AND HIGH TEMPERATURES.

MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES THAT CANNOT BE DECONTAMINATED.

12. OTHER INFORMATION

Compiled By	:	P&AD Department, Bharat Petroleum Corporation Limited, “ A ” Installation, Sewree (East), Mumbai – 400 015.
Technical Contact No.	:	9122 – 24176354
Fax No.	:	9122 - 24182511

This data sheet and the Health, Safety and environmental information is considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside BPCL. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health & Safety precautions and environment advice noted in this data sheet may not be accurate for all individuals and/ or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given to practise any patent invention without a valid licence. BPCL shall not be responsible for any damage or injury resulting from abnormal use of material , from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.