

MATERIAL SAFETY DATA SHEET

Product:

HARP® MO SERIES

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Revision: 1.01

Date: 01/2009

01 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME MO32, MO68, MO100, MO3E, MO4E

SUPPLIER

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02 - HAZARDS IDENTIFICATION

This is not a dangerous substance. Material has a NFPA rating of 1 – 1 – 0. There are no chemicals in reportable quantities under SARA Section 313. Use of adequate ventilation will avoid aspiration of oil mists. Wash skin after contact, prolonged contact with any oils can cause irritation in some individuals.

PRIMARY ROUTES OF ENTRY

Skin

EYES

Tests on similar materials suggest that no eye effect can be expected.

SKIN

Tests on similar materials indicated that no significant adverse health effects are expected to occur upon short-term exposure.

INGESTION

Tests on similar materials indicate no adverse effects expected. Practically non toxic

INHALATION

Tests on similar materials indicate no acute effects are expected.

CHRONIC (CANCER INFORMATION)

Prolonged and/or repeated contact with this material may produce skin irritation and inflammation. Carcinogen listed by: National Toxicology Programme (NO); I.A.R.C. (NO); OSHA (NO), ACGIH (NO). This product does not require a cancer hazard warning in accordance with the OSHA Hazardous Communication Standard.

MEDICAL CONDITIONS

AGRAVATED BY EXPOSURE

Personnel with pre-existing skin disorders should avoid contact with this product.

03 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

Hydrotreated Heavy Naphthenic Distillate

CAS NO

Proprietary

% BY V/V

100

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04 - FIRST AID MEASURES

EYE
SKIN

Flush eyes with water for 15 minutes and consult physician.
Upon contact with skin, wash with soap and water. Remove contaminated clothing. Launder or dry clean clothes before reuse. If irritation or rash develops obtain medical assistance. Immediate remove soaked clothing.

INHALATION

Not likely to occur except a mist. Remove patient to fresh air and consult a physician. If breathing is difficult give oxygen. If not breathing give artificial respiration.

INGESTION

Products is practically non-toxic. Do not induce vomiting. Obtain emergency medical attention.

05 - FIRE-FIGHTING MEASURES

FLASH POINT
AUTOIGNITION
FLAMMABILITY CLASS
LOWER EXPLOSIVE LIMIT
UPPER EXPLOSIVE LIMIT
FIRE AND EXPLOSION HAZARDS

>330°F >166°C COC ASTM D92
>650°F >343°C

IIIB

(%) : Not determined

(%) : Not determined

Slightly combustible. OSHA/NFPA Class IIIB Combustible Liquid. If heated above its flash point will release flammable vapours which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oil's normal flash point. Keep away from extreme heat and open flame.

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, water fog and foam. NOTE: Water, fog and foam may cause frothing and spattering.

FIRE FIGHTING INSTRUCTIONS

Use water to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). Products of combustion include fumes, smoke and carbon monoxide.

06 - ACCIDENTAL RELEASE MEASURES

PROCEDURES

Shut off ignition source. Contain spill and keep from entering waterways or sewers. Use personal protective equipment. Advise EPA or State Agency if required. Absorb on inert material. Shovel, sweep or vacuum spill.

07 - HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS

Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapours. NFPA Class IIIB storage. Wash thoroughly after handling.

STORAGE TEMPERATURE

Ambient or slightly elevated to facilitate pumping.

STORAGE PRESSURE

Atmospheric.

WORK/HYGIENIC PRACTICES

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil soaked clothing and launder before re-use. Launder or discard contaminated shoes and leather gloves.

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08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	Oil mist
CAS NO	64742-52-5
EXPOSURE LIMITS	TWA MIST 5mg/m ³ 8 Hrs (Mist) ACIGH TVL Mist 10 mg/m ³ 8 Hrs (Mist)
EYE/FACE PROTECTION	Safety glasses or splash goggles. Have suitable eye wash water available.
SKIN PROTECTION	Avoid prolonged repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are polyvinyl chloride, neoprene, nitrile, polyvinyl alcohol, viton.
RESPIRATORY PROTECTION	Normally not required if adequate ventilation. If occupational exposure limits are exceeded wear NIOSH/MSHA approved apparatus.
ENGINEERING CONTROLS	Use adequate ventilation to keep oil mists of this material below applicable standard(s). See Section on occupational exposure limits.
OTHER/GENERAL PROTECTION	If there is a likelihood of splashing, an oil resistance clothing should be worn. Never wear oil soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard).

09 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear pale straw coloured liquid
PHYSICAL STATE	liquid
COLOUR	Pale straw coloured
ODOUR	light blend petroleum
VAPOUR PRESSURE	0.001mm of Hg @ 20°C
VAPOUR DENSITY (AIR=1)	> 10
BOILING POINT	IBP > 500 (D86)°F IBP > 260 (D86)°C
MOLECULAR WEIGHT	326.00
ODOR THRESHOLD	N.D.
SPECIFIC GRAVITY (WATER=1)	0.91
pH	Essentially neutral
% VOLATILITY	Nil
VISCOSITY	153 SUS @ 100°F
EVAPORATION RATE	1000 x slower than ethyl ether
SOLUBILITY IN WATER	Negligible
MELTING POINT	-53 (D97)°F -47 (D97)°C
PACKING DENSITY	N/A

Physical data may vary slightly to meet specifications.

10 - STABILITY AND REACTIVITY

STABILITY	Stable
CONDITIONS TO AVOID	Sources of ignition.
INCOMPATIBLE MATERIALS	Strong Oxidizers
HAZARDOUS DECOMPOSITION	Combustion may product carbon monoxide and other asphxiants
HAZARDOUS POLYMERIZATION	Will not occur.

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11 - TOXICOLOGICAL INFORMATION

ACUTE STUDIES
EYE EFFECTS
SKIN EFFECTS

Tests on similar materials show a low order of acute oral and dermal toxicity.
Minimal irritation on contact.
Practically non-toxic if absorbed. May cause mild irritation with prolonged and repeated contact.

ACUTE ORAL EFFECTS
ACUTE INHALATION EFFECTS
MUTAGENICITY (GENERIC EFFECTS)

Tests on similar materials indicate low order to acute oral toxicity.
Low acute toxicity expected on inhalation.
This product has been tested by modified ames to have a MI less than 1 which would not be predicted to be tumorigenic in a mouse skin-painting bioassay.

MISCELLANEOUS TOXICOLOGICAL
INFORMATION

This product meets the IP346 European Labelling Requirement Exemption.

This product is severely hydrotreated. Severely hydrotreated naphthenic petroleum oil has not been found to be carcinogen. This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Programme, by the I.A.R.C. Monographs or by OSHA. Nevertheless, good industrial hygienic practices are recommended.

12 - ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting requirements.

13 - DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined. Do not flush to drain/storm sewer. Contract to authorized disposable service. If permitted incineration may be practical. Recommend recycling.

14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME
DOT IDENTIFICATION NUMBER
DOT SHIPPING LABEL
HAZARDOUS CLASS

Not regulated by DOT
65 Petroleum Oil Nobin
Not regulated by DOT
Not applicable

15 - REGULATORY INFORMATION

SARA 302 THRESHOLD PLANNING
SARA REPORTABLE QUANTITY
EPA/SCA INVENTORY
EPA HAZARD CLASSIFICATION CODE
COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY ACT (CERCLA)
SARA TITLE III – HAZARD CLASSES
SARA TITLE III – SECTION 313 SUPPLIER
NOTIFICATION
EUROPEAN (ECC) REGULATORY INFORMATION

Not applicable
Not applicable
The components of this product are listed on the EPA/TSCA inventory of chemicals.
Not applicable
No chemicals in this product are subject to the reporting requirements of CERCLA
Acute Health Hazard
No chemicals in this product exceed the De Minimus reporting level established by SARA Title III Section 313 and 40 CFR 372.
This product is listed on the European Inventory of Existing Commercial Substances.
Not controlled

WHMIS CLASSIFICATION

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16 - OTHER INFORMATION

NFPA RATING	Health	1	Negligible
	Fire	1	Slight
	Reactivity	0	Negligible

This data sheet was prepared in accordance with Directive 2001/58/EC.

This information contained within this safety data sheet applies only to the Harp International Limited product to which it relates. The information provided is based upon our best knowledge at the time that this safety data sheet was published.

The information is believed to be accurate and is given in all good faith.

When used in other preparations, in formulations or in mixtures, it is necessary to ascertain if the classification of the hazards have changed.

The attention of users is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it is recommended. In such cases a complete reassessment should be made by user.

This safety data sheet should only be used and reproduced in order that the necessary measures may be taken relating to the protection of health and safety at work and relating to the protection of environment.

The reference to the legislative, regulatory and codes of practice documents must not be considered as exhaustive.

It is the responsibility of handlers of the product to pass on the totality of the information contained within this document to any subsequent persons who will come into contact with, handle or use the product in any way.

They should check the adequacy of the information contained in the safety data sheet received before passing it onto their customers.

End of document