

MATERIAL SAFETY DATA SHEET

Product:

HARP® SHP 14-68

Page: 1/4

Revision: 1.01

Date: 01/2009

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

PRODUCT NAME HARP SHP 14-68

SUPPLIER

Harp International Limited

Gellihirion Industrial Estate

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02 - HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines.

POTENTIAL HEALTH EFFECTS : No significant effects expected.

To the best of our knowledge, the toxicological properties of these compounds have not been fully investigated. Analogous compounds are considered to be essentially non-toxic.

03 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name:

Synthetic hydrocarbon oil

Performance Additives

CAS:

Proprietary

Proprietary

Percentage (%):

> 99%

< 1%

This product contains no Hazardous components.

04 - FIRST AID MEASURES

Inhalation:

Not expected to be a problem. Evacuate to a safe area with plenty of fresh air. Allow victim to rest in well ventilated area then seek medical aid immediately.

Skin contact:

Remove contaminated clothing. Launder or dry clean clothes before reuse.

Eye contact:

Dispose of leather articles. Wash skin thoroughly with soap and water.

Ingestion:

Flush thoroughly with water. Seek medical attention if irritation occurs.

Not expected to be a problem when ingested. If uncomfortable seek medical attention.

Notify to physicians:

Treatment should, in general, be symptomatic and directed to relieving any effects. Aspiration of the product is unlikely to occur except as the result of ingestion, followed by vomiting or regurgitation in a partially or totally unconscious individual, when immediate effects are most likely to result from the aspiration of acidic stomach contents. If this should occur, transport casualty immediately to hospital.

MATERIAL SAFETY DATA SHEET

Product:

HARP® SHP 14-68

Page: 2/4

Revision: 1.01

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05 - FIRE-FIGHTING MEASURES

This product is COMBUSTIBLE

Flash Point °C=Open Cup:	> 250
Lower Explosive Limit:	ND
Unusual Hazards:	Burning fluid may evolve irritating/noxious fumes.
Extinguishing Agents:	Dry Chemical CO ₂ , foam, water fog.
Protective Clothing:	Fire-fighters should use NIOSH/MNSA approved self-contained breathing apparatus and full protective gear.
Fire Fighting:	Water or foam may cause frothing. Use water to keep fire exposed containers cool.
Procedures:	Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Hot material.

06 - ACCIDENTAL RELEASE MEASURES

Wear protective clothing including splash proof goggles, rubber gloves and rubber overshoes. Remove all contaminated clothing promptly. Floor may be slippery: use care to avoid falling. Contain spill immediately with inert material (e.g. sand, earth). Transfer liquids and solid diking material separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

07 - HANDLING AND STORAGE

Handling:	No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
Storage:	Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

“EMPTY” containers retain residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. “EMPTY” drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye:	Safety glasses (ANSI Z87.1) or approved equivalent.
Skin:	Strongly recommend protective gloves, especially for prolonged exposures. Gloves should be removed immediately if there is any indication of degradation or chemical breakthrough. Long sleeved clothing to minimize skin contact.
Inhalation:	Use in a well ventilated area. If mist is being generated and exceeds the TWA/TLV listed below then a respiratory programme meeting OSHA 1910.134 and ANZI Z88.2 requirements must be followed.

MATERIAL SAFETY DATA SHEET

Product:

HARP® SHP 14-68

Page: 3/4

Revision: 1.01

Date: 01/2009

09 - PHYSICAL AND CHEMICAL PROPERTIES

CHARACTERISTIC	METHOD	SPEC
Physical State	Visual	Liquid
Viscosity 40 C cSt	ASTM D445	66
Viscosity 100 C cSt	ASTM D445	10
Viscosity Index	ASTM D2270	148
Pour Point °C	ASTM D97	-50
Flash Point, COC, C(F)	ASTM D92	> 250
Water ppm	Karl Fischer	< 50
Total Acid Number MgKOH/g	ASTM D974	< 0.05
Density @ 15°C	ASTM D1298	0.835
Foam Sec 1, mL, mL	ASTM D892	70/0
Four-Ball Wear Scar	ASTM D4172	< 0.5

10 - STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Excessive heat, formation of oil mist.
Materials to Avoid:	Strong oxidants such as liquid chlorine, peroxides, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, smoke on combustion, COx, etc..
Hazardous Decomposition:	Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions. Incomplete combustion/thermal decomposition will generate smoke, carbon dioxide and hazardous gases which will include carbon monoxide.
Hazardous Polymerization:	Will not occur.

11 - TOXICOLOGICAL INFORMATION

Oral toxicity (Rats):	Practically non-toxic (LD50: >2000 mg/kg) based on testing of similar products and/or the components.
Dermal toxicity (Rabbits):	Practically non-toxic (LD50: > 2000 mg/kg) based on testing of similar products and/or the components.
Inhalation toxicity (Rats):	Practically non-toxic (LC50: > 5 mg/l) based on testing of similar products and/or the components.
Eye irritation (Rabbits):	Practically non-irritating (Draize score: 0 or greater but 6 or less) based on testing of similar products and/or the components.
Skin irritation (Rabbits):	Practically non-irritating. (Primary Irritation Index: 0.5 or less) Based on testing of similar products and/or components.

12 - ECOLOGICAL INFORMATION

This assessment is based on information for representative substances.

Ecotoxicity:	This product is not expected to be harmful to aquatic organisms (LL50 or EL50 > 100 mg/L). This product is not expected to cause long term adverse effects based on chronic test data (invertebrate Daphnia magna NOEL >=100 ppm). Based upon test data for a similar product.
Mobility:	Not established.
Persistence and degradability:	Not established.
Bioaccumulative potential:	Not established.

MATERIAL SAFETY DATA SHEET

Product: HARP® SHP 14-68

Page: 4/4

Revision: 1.01

Date: 01/2009

13 - DISPOSAL CONSIDERATIONS

Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

14 - TRANSPORT INFORMATION

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200. OSHA hazard warning are not application for this product. Therefore, no OSHA Warnings would appear on the label. No EPA hazardous classification code.

USA DOT: Not regulated by USA DOT

RID/ADR: Not regulated by RID/ADR

IMO: Not regulated by IMO

IATA: Not regulated by IATA

15 - REGULATORY INFORMATION

DEGREE OF HAZARD	NFPA	HMIS	HAZARDOUS RATINGS	
Health	0	0	0	Insignificant
Fire	1	1	1	Moderate
Reactivity	0	0	2	High

USA OSHA HAZARDOUS COMMUNICATION STANDARD : Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EU LABELLING : EU labelling not required.

GOVERNMENTAL INVENTORY STATUS: All components comply with TSCA, EINECS/ELINCS, AICS, METI and DSL.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: This products contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

16 - OTHER INFORMATION

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.

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