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	Revisio	n: 1.01	Date: 11/08
01 - IDENTIFICATION OF THE SUBST	TANCE/PREPAR	ATION AND THE COMPANY/UNDER	ΓAKING
PRODUCT NAME CHEMICAL FAMILY	POE22, POE32, Petroleum Hydro	POE46, POE68 POE120 carbons	
SUPPLIER	Harp International Gellihirion Industr Pontypridd Rhondda Cynon T CF37 5SX United Kingdom	ial Estate	
	Telephone: Fax:	+44 (0) 1443 842255 +44 (0) 1443 841805	
	Email:	harp@harpintl.com	
EMERGENCY TELEPHONE NUMBER	R:	+44 (0) 1270 502891 (24 HOUR)	

02 - HAZARDS IDENTIFICATION (Potential effects from over exposure)

EYE :	May cause eye irritation.
INHALATION :	Product is not toxic by inhalation. If oil mist is inhaled, remove to fresh air and consult physician.
INGESTION :	Do Not Take Internally. Consult physician at once. Low toxicity on ingestion, may cause nausea and diarrhoea.
SKIN :	Minimally irritating. Prolonged contact can cause dermatitis.
THRESHOLD LIMIT VALUE: SITUATIONS TO AVOID:	Not established Avoid breathing oil mists

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.

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29 CFR 1910.1200.

03 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name:	Ester (Polyol Ester)
CAS No.:	Proprietary
Percentage:	Proprietary

04 - FIRST AID MEASURES

EYE :	Flush eyes with water for 15 minutes and consult physician.
SKIN:	Upon contact with skin, wash with soap and water. Remove contaminated clothing-Launder or dry clean
	clothes before reuse. Dispose of leather articles.
INHALATION :	Evacuate to a safe area with plenty of fresh air. Allow victim to rest in a well ventilated area and consult
	physician
INGESTION :	Consult physician at once. May cause nausea and diarrhoea.

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05 - FIRE-FIGHTING MEASURES		
This product is combustible.		
Flash point $^{\circ}C$ = open cup cleveland open cup	230-300 °C	
Flammable limits	Not established	
Auto-ignition temperature	No data	
Unusual hazards	None	
Extinguishing agents	Dry chemical, CO_2 foam, water fog (see bel	low)
Protective clothing	Fire-fighters should use NIOSH/MNS	* *
	breathing apparatus and full protective gear	
Fire-fighting procedures	Burning fluid may evolve irritating/noxious	e
	fire exposed containers. USE WAT	
	EXPOSED/BURNING LIQUIDS. May ca	use frothing and splashing of
	hot material.	

Personal protection

Wear suitable protective equipment, especially splash proof goggles, rubber gloves and rubber over shoes. Remove all contaminated clothing promptly.

Procedures

Floor may be slippery: Use care to avoid falling. Stop source of spill. Dike spill area. Use absorbent materials to soak up fluid (i.e. sand, sawdust, and commercially available materials). Wash spill area with large amounts of water. Properly dispose of all materials.

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

07 - HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing.

Ensure that containers are properly secured before moving.

Keep container closed and keep away from oxidizing materials.

Store in a cool, well ventilated area. Product is hydroscopic. Storage under nitrogen if highly recommended.

"Empty" containers contain residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURISE, 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 reconditioner. 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.

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08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Component expos	ure limit	OS	HA	AC	GIH	Carcinogenic
Component	Units	TWA	STEL	TLV	STEL	
Ester (Polyol	mg/m ³	N.D.	N.D.	N.D.	N.D.	No
Ester)						

PERSONAL PROTECTION MEASURES

EYE/ FACE	Safety glasses/goggles (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 well ventilated area. If mist is being generated and exceeds the
	TWA/TLV listed above than a respiratory program meeting OSHA
	1910.134 and ANSI Z88.2 requirements must be followed.
VENTILATION	Local exhaust

09 - PHYSICAL AND CHEMICAL PROPERTIES

Clear Liquid mild distinct 0.01mm of Hg @ 20/C > 650° F 0.94 - 0.97 $230 - 300^{\circ}$ C Gray to yellow or light brown tint N.D. 100 - 2400 0 0% Negligible
0,0

10 - STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	Excessive heat, formation of oil mist
Material to avoid:	String oxidisers, caustic or acidic solutions such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, smoke on combustion, Cox etc.
Hazardous decomposition:	Analogous compounds evolve carbon monoxide, carbon dioxide and other unidentified fragments when burned. See section 5.
Hazardous polymerization:	Will not occur.

This product may degrade some paints and rubber materials

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11 - TOXICOLOGICAL INFORMATION

Toxicity data for a similar material is listed below

Skin irritationMay cause irritation and possible dermatitisEye irritationSlight irritation

12 – ECOLOGICAL INFORMATION

No specific ecological data are available for this product.

13 – WASTE DISPOSAL

Incinerate this product and all associated wastes in a licensed facility in accordance with Federal, State and local regulations.

14 – REGULATORY INFORMATION

Degree of hazard	NFPA	HMIS	Hazard ratings	
Health	0	0	0	Insignificant
Fire	1	1	1	Moderate
Reactivity	0	0	2	High
Specific hazards	None		3	Extreme
Personal Protection Index		В	4	Extreme

15 - TRANSPORT INFORMATION

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warning are not applicable for this product, therefore no OSHA warnings would appear on the label. No EPA hazard classification code. All components used in the production of this product are TSCA approved.

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.