LAPMASTER®

MATERIAL SAFETY DATA SHEET

1	**PRODUCT NAME** **REF (MSDS 11)**	**HYDROLAP**
	Description	Supplied as a metal working lubricant/coolant for use in suitable industrial applications only. The product should be diluted with water in the recommended concentration which should not exceed 15% by volume unless by specific recommendation.
	Supplied by:	Lapmaster International Ltd Lee Mill Industrial Estate Ivybridge Devon PL21 9EN Tel: + 44 1752 893191 Fax: + 44 1752 896355
2	**Information on Ingredients**	General: Performance additives. Fungicide. Antifoam. Hazardous: 2 –aminoethanol X, (R20,36/37/38), % OES 8mgm^{-3} 5.0-10.0
3	**Hazards Identification:**	This product is not classified as hazardous under current legislation. May cause mild irritation following skin or eye contact with undiluted product.
4	**First Aid Measures:** EYES:	Hold eyes open for at least 15 minutes under running water. If irritation persist, obtain medical attention.
	SKIN:	Wash off neat product promptly with soap and water. Contact with diluted product should be washed as directed by good standards of industrial hygiene. Remove contaminated clothing and wash before re-use.
	INHALATION:	In extreme cases, remove from exposure. If patient is feeling ill, seek medical attention.
	INGESTION:	DO NOT INDUCE VOMITING. Give milk or water and obtain immediate medical attention showing this sheet.

	PRESSURE INJECTION:	**OBTAIN IMMEDIATE MEDICAL ATTENTION EVEN IF INJURY APPEARS MINOR**
5	**Fire-fighting Measures:**	
	Suitable extinguishing media:	Dry chemical, CO_2, foam and sand.
	Unsuitable extinguishing media:	None anticipated.
	Special exposure hazards:	Combustible after evaporation of water
	Combustion products:	Carbon dioxide, carbon monoxide and partially oxidised organic fragments of the product's main ingredients.
	Special Protective Equipment	Self-contained breathing apparatus should be worn in fire conditions.
6	**Accidental Release Measures:**	
	Personal precautions:	Wear suitable protective clothing.
	Environmental precautions:	Do not allow spillage to enter sewers, rivers or open water.
	Methods for cleaning up:	Contain and absorb with inert material, shovel to disposal. Do not allow the area to remain slippery with product residues.
7	**Handling and Storage:**	
	Handling precautions:	Handle and open container with care. Avoid contact with skin and eyes. Provide suitable mechanical equipment for the safe handling of drums.
	Storage precautions:	Good indoor storage conditions. Keep in tightly closed, clearly labelled containers.
8	**Exposure Controls/Personal Protection:**	
	Occupational Exposure limits:	2-aminoethanol X, (R20/36/37/38), OES 8mgm^{-3}

	Eyes:	Goggles should be worn when handling the neat material and when splashing of the diluted material is likely.
	Skin:	Gloves are recommended where contact with the neat material occurs. The use of gloves or suitable barrier creams is also recommended where prolonged or repeated contact with the diluted product is inevitable.
	Inhalation:	Local exhaust ventilation is recommended when excessive product misting occurs
	Industrial Hygiene:	Goods standards of industrial hygiene together with the use of after-care creams are recommended for use of the dilated product.
9	**Physical and Chemical Properties:**	
	Physical Form:	Liquid **Appearance:** Transparent Yellow
	Odour:	Mild **Specific Gravity(@15.5ºC):** 1.05
	Pour Point:(º C):	-17 **Boiling Point(ºC):** >100
	pH-concentrate:	10.5. **pH-working strength**: 9.9@3%
	Vapour Pressure(kPa):	<Water **Vapour Density (air=1):** >Air
	Miscibility with Water:	Miscible **Evaporation Rate (nBuAc=1):** <Water
	Viscosity cS:	Not applicable **Autoflammability,º C**: Not determined
	Flash Point (ºC, Open Cup):	Not applicable (water based Product).(>100 after evaporation.
	Explosive Properties %:	Not determined.
	The data given here is typical for	this material. It does not constitute a specification.

10	**Stability and Reactivity:**	
	Chemical Stability:	The product is stable and not subject to polymerisation.
	Conditions to avoid:	Avoid overheating.
	Materials to avoid:	Avoid strong oxidising agents.
	Hazardous decomposition Products:	Product does not decompose at ambient temperature.
11	**Toxicological Information**	The following toxicological assessment is based on knowledge of the toxicity of the product's components.
	Health effects:	
	Eyes:	May be irritating to the eyes.
	Skin:	Prolonged or repeated contact with conditions of poor industrial hygiene may cause irritation.
	Inhalation:	Inhalation of mists may cause irritation.
	Ingestion:	Ingestion of large quantities may cause nausea and sickness.
	Chronic:	Prolonged or repeated contact with conditions of poor industrial hygiene may cause irritation
	SPECIAL HAZARDS OF PRODUCTS AFTER USE:	Product may become contaminated with hazardous metals depending upon conditions of use. These may introduce an increased risk to health via allergic skin reaction or exposure to excessive mist.
	Pressure Injection:	Injection of all products will cause severe internal damage if not properly treated.
12	**Ecological Information:**	
	Mobility:	Mobile liquid, involatile, miscible with water.

	Persistence and degradability: Bioaccumulative potential: Ecotoxicity:	>90% degradable. This material is unlikely to bioaccumulate. Not considered dangerous to the environment. COD = 461,000MG/L.
13	**Disposal Considerations:** Disposal must be in accordance with local and national legislation. Unused material: Used material: Empty packaging:	 The product should be removed by approved waste contractors. The product should be removed by approved waste contractors. All packaging should be disposed of in a manner acceptable to the authorities.
14	**Transport Information**: Classification for transport: UN number: IMO Class: ICAO/IATA Class: ADR/RID Class: Marine pollutant:	 Not classified. . Not applicable. Packing Group: Not applicable Not applicable Not applicable. Not applicable. No
15	**Regulatory Information:** Classification for supply: Risk phrases: Safety phrases: Note:	 Not classified Not applicable. Not applicable. Not applicable.

	Statutory Instruments:	The Health & Safety at Work etc Act 1974 Control of Substances Hazardous to Health Regulations 1988. Environmental Protection Act 1990. Chemical (Hazard Information and Packaging) Regulations 1993.
16	**Other information** This information is taken from sources believed to be accurate. Lapmaster International Ltd, however, makes no warranty as to the accuracy of the information or suitability of the recommendations as to your operations and assumes no liability to any user thereof.	