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MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME
AMERICAN HELMITIN CORPORATION
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DATE OF PREPARATION
FEBRUARY, 1994

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: HELMIPRENE LR PRODUCT CLASS: NON-FLAMMABLE SOLVENT BASED SYNTHETIC RUBBER ADHESIVE

SECTION II - HAZARDOUS INGREDIENTS

MATERIAL	CAS#	PERCENT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE mmHg
			TLV	PEL	
Methylene Chloride *	75-09-2	72-77%	50 PPM	500 PPM	350
PM Acetate	100-65-6	2-5%	N.A	N.A	3.7

N.A. = NOT APPLICABLE

* Substances subject to reporting requirement of Section 313 Title III of the 1986 Superfund Amendments Reauthorization Act and 40 CFR Part 372

SECTION III - PHYSICAL DATA

BOILING POINT: 104 DEGREES F VAPOR DENSITY HEAVIER LIGHTER THAN AIR

EVAPORATION RATE FASTER SLOWER THAN ETHER SPECIFIC GRAVITY (WATER=1) 1.31
SOLUBILITY IN WATER: NIL % VOLATILE BY VOLUME 75

HELMIPRENE LR is a moderately viscous tan color liquid with strong chlorinated solvent odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA NONE DOT HAZARDOUS FLASH POINT > 200 Degrees F LEL 1.3%

EXTINGUISHING MEDIA:

FOAM "ALCOHOL" FOAM CO2 DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: High vapor concentrations of methylene chloride can be ignited in air by high-energy source. When exposed to open flames and temperature above 1300 degrees F. Toxic and corrosive gases can be formed.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire exposed containers cool, to prevent rupture.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

1. ACUTE - Irritation to eyes, skin and respiratory tract. headache, dizziness, mental confusion and drowsiness. Skin contact can cause inflammation and dermatitis in sensitive persons.
2. CHRONIC - May lead to allergic sensitivity in some persons; resulting in dermatitis and defatting of skin after prolonged or repeated contact.

Listed as a chemical known to the state of California to cause cancer. Methylene Chloride is listed on the IARC and NTP carcinogen list but not by OSHA. IARC has concluded that there is sufficient evidence for the carcinogenicity of methylene chloride to animals, and inadequate evidence for the carcinogenicity of methylene chloride to humans.

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PRODUCT NAME: HELMIPRENE LR

MEDICAL CONDITION PRONE TO AGGRAVATION BY EXPOSURE:

Dermatitis, defatting of skin, CNS depression, cardiac arrhythmias.

HAZARDOUS CHEMICALS LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN YES IARC YES OSHA YES
 NATIONAL TOXICOLOGY PROGRAM NO MONOGRAPHS NO NO

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

1. INHALATION - Remove to fresh air. Restore breathing if necessary. Seek medical attention.
2. EYES - Flush eyes with plenty of water. If irritation persists, seek medical attention.
3. SKIN - Wash affected area with soap and water. Remove contaminated clothing. If irritation persists, seek medical attention.
4. INGESTION - Drink 1 or 2 glasses of water to dilute. DO NOT induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE STABLE

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, HYDROGEN CHLORIDE, PHOSGENE

CONDITIONS TO AVOID: Excessive heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong caustics, strong oxidizers. May react with aluminum, zinc, or magnesium parts in fluid handling systems.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Cover spill with absorbent material, such as sand, sweeping compound, or diatomaceous earth and containerize.

WASTE DISPOSAL: Dispose in accordance with local, state and federal regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: None required with adequate ventilation. In restricted ventilation areas, use organic vapor cartridge self-contained or air supplied. Observe OSHA Regulations for respirator use 29 CFR, 1910.134.

VENTILATION: Local mechanical exhaust to maintain concentrations below TLV.

PROTECTIVE GLOVES: Gloves are required. Polyurethane, P.E., or Para Cril/PVC are best to prevent repeated or prolonged contact.

EYE PROTECTION: Chemical goggles or full face shield to prevent reasonable probability of contact.

OTHER PROTECTIVE EQUIPMENT: Impervious chemical apron. Provide eye bath and safety shower.

HYGIENIC PRACTICES: Promptly remove non-impervious clothing that becomes contaminated.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks, and open flames. Do not store above 45 degrees C (113 F). Empty containers are hazardous. Avoid prolonged breathing of vapors. Avoid prolonged or repeated skin contact. Keep closure tight and container upright to prevent leakage. Do not store in aluminum or zinc metal contact.

OTHER PRECAUTIONS: DANGER! HARMFUL OR FATAL IF SWALLOWED! FOR INDUSTRIAL USE ONLY!