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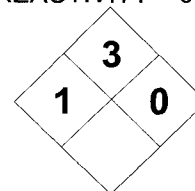
MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product Name: Bond-Aid
Date Prepared: 10/01/86
Name of Preparer: R. Eric Montgomery
Date Revised: 8/11/98

POISON CONTROL CENTER
CHEMTREC
1-800-424-9300

HEALTH = 1
FLAMMABILITY = 3
REACTIVITY = 0



SECTION II - HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Exposure Limits	
		ACGIH TLV	OSHA PEL
Ethyl Acetate 99%	141-78-6	400 ppm;	400 ppm
Ammonium Hydroxide 28%	1336-21-6	25 ppm;	N/A

0 = MINIMAL,
1=SLIGHT,
2=MODERATE,
3=SERIOUS,
4=SEVERE

SECTION III - REACTIVITY DATA

Stability: Stable

Incompatibility: Strong Oxidizing Agents, mineral and organic acids.

Hazardous Decomposition Products: Thermal decomposition may produce ammonia, carbon monoxide, and/or carbon dioxide.

Hazardous Polymerization: Will not occur.

SECTION IV - HEALTH HAZARD INFORMATION

Symptoms of Overexposure:

Inhaled: High exposure may result in narcotic effect and headache. Inhalation of large quantities can cause irritation of throat and lungs.

Contact with Skin or Eyes: Vapors and liquid are irritating to the eyes. Repeated and prolonged contact can cause drying of the skin.

Absorbed Through Skin: Not expected, material is extremely volatile

Swallowed: May cause headache, drowsiness, and unconsciousness.

Health Effects from Overexposure:

Acute: Oral, rat: LD=11gm/kg; Inhalation, rat:LD=1600 ppm/8hrs

Overexposure can cause respiratory irritation, dermatitis, and possible anemia from animal studies.

First Aid - Emergency Procedures:

Eye Contact: Flush eyes with water for at least 15 minutes. Contact a physician.

Skin Contact: Remove contaminated clothing and wash with large amounts of water. If irritation persists, consult a physician.

Inhaled: Remove patient from contaminated area. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact a physician.

Swallowed: Induce vomiting of conscious patient immediately by giving 2 glasses of water and pressing finger down throat. Contact a physician immediately.

IN ALL OF THE ABOVE EMERGENCY CASES, CALL A PHYSICIAN.

Suspected Cancer Agent: No

Medical Conditions Aggravated by Exposure: None Known.

This products ingredients are not found in the following lists:

OSHA, NTP, IARC.

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ADDITIONAL INFORMATION CONTINUED ON THE OTHER SIDE

MATERIAL SAFETY DATA SHEET

Product Name: Bond-Aid

SECTION V - SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill Response Procedures: Place leaking containers in well ventilated areas. Eliminate ignition sources. Use foam to control vapors. Flush area with water sparingly or use an absorbent to contain and/or remove spill. Dike the spill to minimize contaminated area and facilitate salvage or disposal. Avoid run-off into storm sewers and ditches which lead to natural waterways. This material creates a fire hazard because it floats on water.

Preparing Wastes for Disposal: Incineration, biological treatment of dilute solution, or landfill if solidified prior to disposal. Dispose of in accordance with all local, state and federal regulations.

SECTION VI - SPECIAL HANDLING INFORMATION

Ventilation and Engineering Controls: Local exhaust is recommended as the sole means of controlling employee exposure. Exhaust system should be capable of changing air out 10 times in an hour.

Respiratory Protection: Use NIOSH approved organic vapor cartridge or canister respirator within use limitation of these devices. In all other situations, use self-contained breathing apparatus.

Eye Protection: Chemical safety goggles.

Gloves: Neoprene or rubber gloves

Other Clothing and Equipment: For operations where spill or splashing may occur, use an impervious body covering and boots. A safety shower and eye-bath should be available.

SECTION VII - PHYSICAL PROPERTIES

Vapor Density (air=1): 3.04

Specific Gravity: 0.902 @ 20 deg.C

Solubility in Water: 8.7%

Vapor Pressure, mmHg at 20 Deg. C: 86

Melting Point (Degrees Fahrenheit): -82.4 to -83.6

Boiling Point (Degrees Fahrenheit): 77.0 - 77.2

Evaporation Rate (Butyl Acetate=1): 4.5

Appearance and Odor: Water-white liquid; sweet fruity odor.

SECTION VIII - FIRE AND EXPLOSION

Flash Point (Fahrenheit) and Method: 24 (Tag closed cup)

Flammable Limits in Air, Volume %: Lower: 2.0; Upper: 11.4

Fire Extinguishing Materials: Foam, Carbon Dioxide, Dry Chemical

Special Firefighting Procedures: Wear self-contained breathing apparatus (SCBA). Use water spray to cool fire-exposed structures and tanks; disperse vapor cloud if no fire.

Unusual Fire and Explosion Hazards: Vapor is heavier than air and may travel considerable distance to a source of ignition and flashback.

SECTION IX - USERS RESPONSIBILITY

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be determined if, or where, precautions, in addition to those described herein should be passed on to your customers or employees, as the case may be. OPI Products Inc. must rely on the user to utilize the information we have supplied to develop work practice guidelines and employee instructional programs for the individual operation and regulations.

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