CLIFF PATENAUDE -BL

PLAINTIFF'S EXHIBIT

BIR-820

Send

BIRD & SON
EAST WALPOLE MA

REPLY TO: EAST WALPOLE, MA 02032
TEL: 617-668-2500

September 9, 1981

Scientific Products Division
American Hospital Supply Corporation
1430 Waukegan Road
McGaw Park, IL 60085

Dear Sir:

Would you please furnish us Material Safety Handling Sheets for the following chemicals. We need these to conform to the storage of these chemicals in accordance with the chemical manufacturer's recommendations.

N-HEPTANE 5177-8

Very truly yours,

H. W. Church

Herbert W. Church
Purchasing Analyst

HC/ns

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
MALLINCKRODT, INC.	(606)987-7000
ADDRESS (Number, Street, City, State, and ZIP Code) P.O. Box 5439 St. Louis, Mo. 63147 P.O. Box M, Paris, Ky. 40361	
CHEMICAL NAME AND SYNONYMS Heptane	TRADE NAME AND SYNONYMS Dipropyl methane
CHEMICAL FAMILY Organic Compound	FORMULA $CH_4 (CH_2)_5 CH_3$

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	208°F	SPECIFIC GRAVITY (H_2O=1)	0.68
VAPOR PRESSURE (mm Hg.) at 22.3°F	40 mm.	PERCENT, VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	3.45	EVAPORATION RATE Water =1)	1
SOLUBILITY IN WATER	insoluble		
APPEARANCE AND ODOR	Colorless liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)		FLAMMABLE LIMITS	Lel	Uel
	25°F		1.2	6.7

EXTINGUISHING MEDIA
"Alcohol" foam, carbon dioxide, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES
Do not use water. Heptane is lighter than water and will float, may spread the fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Vapors are heavier than air. They may travel a long distance to point of ignition and flash back.

(Continued on reverse side)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
500 ppm

EFFECTS OF OVEREXPOSURE
~~Remove from atmosphere. Use artificial respiration if person is unconscious.~~
Get medical attention.

EMERGENCY AND FIRST AID PROCEDURES
Use artificial respiration if person is unconscious. Get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Absorb on paper towel. Let evaporate in a hood in an iron pan. Allow fumes to clear the hood vents and burn the paper.

WASTE DISPOSAL METHOD
Mix with lower flammable organic solvent and spray into the ignition chamber of an incinerator with afterburner.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*
Gas mask with organic vapor cannister.

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL *(General)*	OTHER

PROTECTIVE GLOVES	EYE PROTECTION
Rubber	Splash proof goggles.

OTHER PROTECTIVE EQUIPMENT
Lab Coat

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Outside storage is preferred. Inside storage should be in a standard room for flammable solvent.

OTHER PRECAUTIONS