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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, 1918, 1917)

SECTION I

MANUFACTURER'S NAME

NORCHEM Industries, Inc.

EMERGENCY TELEPHONE NO.

(206) 467-6053

ADDRESS (Number, Street, City, State, and ZIP Code)

SEATTLE, WA 98138

CHEMICAL NAME AND SYNONYMS
Poly-Colloidal Emulsion

TRADE NAME AND SYNONYMS

Boilermup

CHEMICAL FAMILY

Emulsion Cleaners

FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	0	N/A	BASE METAL		
CATALYST	0	N/A	ALLOYS		N/A
VEHICLE	Min: Water Max: Stoddard	50 15	METALLIC COATINGS		"
SOLVENTS	" Chlorinated Hyd/cbn	20	FILLER METAL PLUS COATING OR CORE FLUX		"
ADDITIVES	" Butyl Carbitol Surfactant Blend	15 20	OTHERS		"
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					TLV (Units)
N/A					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	160±	SPECIFIC GRAVITY (H ₂ O=1)	1.050
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	ca. 80%
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (H ₂ O=1)	ca. 1.2
SOLUBILITY IN WATER	Miscible		
APPEARANCE AND ODOR	100%		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Approx. 110 F. (Closed/Open Cup)	FLAMMABLE LIMITS	Let	Uel
EXTINGUISHING MEDIA	Self Extinguishing. Product will not burn or support combustion.	N/A		
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Calculated TLV = 900+. Lowest Component TLV = 350

EFFECTS OF OVEREXPOSURE

Prolonged contact with Skin can cause mild irritation or rash in exposed area.

Eye contact results in mild irritation, usually eliminated by tears.

EMERGENCY AND FIRST AID PROCEDURES

Rinse thoroughly with water, Flush affected eye with quantities of water.

If irritation persists, get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY:

Stable

UNSTABLE

STABLE

CONDITIONS TO AVOID

Product may separate into two phases if exposed to temperatures below 40° F,

INCOMPATIBILITY (Materials to avoid)

Do not soak aluminum, magnesium parts over 6 hours; corrosion begins after 24 hrs

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

CONDITIONS TO AVOID

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Product is very slippery, especially to rubber soles. If drain is available, rinse thoroughly. If not, soak up product with rags, paper, etc., and mop area well.

WASTE DISPOSAL METHOD

No special hazards. Trash absorbent materials. Flush to drain moderate quantities. Large spills (over 10 gal) should be sorbed and shovelled to trash containers for land disposal to avoid sewer foaming problems.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Standard industrial precautions are adequate.

VENTILATION

LOCAL EXHAUST

Provide good ventilation

MECHANICAL (General)

Standard

SPECIAL
N/A

OTHER
N/A

PROTECTIVE GLOVES

Light Weight Rubber Gloves recommended

EYE PROTECTION

Eyeglasses or light goggles adequate

OTHER PROTECTIVE EQUIPMENT

N/A

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Where hand contact will occur, remove rings, watches, etc., to avoid "trapping" product against skin for prolonged periods. Wear rubber gloves; NO leather gloves.

OTHER PRECAUTIONS