

1/1/2005

MATERIAL SAFETY DATA SHEET NPVLA 6-70

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSB-00S-4)

Section I

MANUFACTURER'S NAME

CLEVELAND LITCHICHROME, INC.

STREET ADDRESS

1024 EAST WALL STREET P.O. BOX 326

CITY, STATE AND ZIP CODE

FORT SCOTT, KANSAS 66701

EMERGENCY TELEPHONE NO.

(620) 223-3210 and (620) 223-0115 and (620) 223-6008

CHEMICAL NAME AND SYNONYMS

N/A

TRADE NAME

PERMABOND

CHEMICAL FAMILY

N/A

FORMULA

N/A

Section II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

	%	TLV (UNITS)	SOLVENTS	CAS	%	TLV (UNITS)
			*Methyl Isobutyl Ketone	108-10-1	45	100
			*Xylol (Xylene)	1330-20-7	45	100
			VINYL RESIN		10	not established
CATALYST			*listed on SARA 313			
VEHICLE			ADDITIVES			
			OTHERS			

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM CODE

Health 2 (Moderate) Flammability 3 (High) Reactivity 0 (Least)

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

% TLV (UNITS)

Section III - PHYSICAL DATA

BOILING POINT (°F)	237° F	SPECIFIC GRAVITY (H2O=1)	(Water=1): 0.836
VAPOR PRESSURE (MM Hg.)	(mm of Hg.)@20°C: 11.9	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	(Air≈1) 3.7	EVAPORATION RATE (Ether=1)	8.3
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Clear, water. Odor: Ketone		

Section IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	Vel	Vel
18°C/64°F (TCC) Lowest Flashing Component		1.3	7.5

EXTINGUISHING MEDIA

NFPA Class B Extinguishers (CO2 or Foam) - media: for class I B liquid fires

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire fighters & cool closed containers

Use fog nozzles if water is used. Use air-supplied breathing masks.

UNUSUAL FIRE AND EXPLOSION HAZARDS

FLAMMABLE: Keep container tightly closed. Isolate from oxidizers, heat, sparks electric equipment and open flame.

Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions.

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Section V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Methyl Isobutyl Ketone 100ppm-	OSHA-PEL	ACGIH-TLV	ACGIH-STEL
	100ppm	50ppm	75ppm
Xylol (Xylene) 100ppm-	OSHA-PEL	ACGIH-TLV	ACGIH-STEL
	100ppm	100ppm	150ppm

EFFECTS OF EXPOSURE

INHALING: Anesthetic, Irritates respiratory tract. May cause serious nervous system depression.

SKIN OR EYE CONTACT: Primary irritation. **EFFECTS OF SWALLOWING AND CHRONIC OVER-EXPOSURE:**

Vapor harmful. Liquid causes eye irritation. Liquid may cause skin irritation. Harmful or fatal if swallowed.

EMERGENCY AND FIRST AID PROCEDURES

In case of contact with skin, flush with plenty of water. For eyes, flush with plenty of water for 15 minutes & get

medical attention. If exposed to high concentration of vapor, remove to fresh air. If swallowed, CALL A PHYSICIAN IMMEDIATELY!

DO NOT induce vomiting.

Section VI - REACTIVITY DATA

STABILITY	UNSTABLE	CONDITIONS TO AVOID
	STABLE X	Isolate from heat, sparks, electric equipment & open flame.

INCOMPATIBILITY (Materials to avoid)

Isolate from strong oxidizers such as permanganate.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide from burning

HAZARDOUS POMMERIZATION	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

Isolate from oxidizers, heat, sparks, electric equipment and open flame.

WASTE DISPOSAL METHOD

Recycle or incinerate observing local, state, and federal health, safety & pollution laws.

Section VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

The use of respiratory protection is advised when concentrations exceed the established exposure limits, (see section V).

Depending on the airborne concentration, use a respirator or gas mask with appropriate organic vapor cartridge and cannisters (NIOSH approved, if available) or supplied air equipment. A half mask may be used, however, a full face mask is recommended for high concentrations.

VENTILATION	LOCAL EXHAUST	SPECIAL
	Preferable	None
PROTECTIVE GLOVES	MECHANIC , (general)	OTHER
Recommended (must not dissolve in solvents)	Acceptable	None
	EYE PROTECTION	
	Eye goggles required.	

OTHER PROTECTIVE EQUIPMENT

None

Section IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store above 49°C/120°F. Store large amounts in structures made for OSHA Class I B liquids. Avoid free fall of liquid.

*Ground containers when pouring. Do not flame cut, saw braze or weld. Empty container hazardous! Continue all label precautions!

*Only applicable to 5 gallon containers or larger.

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