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

Form Approved
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MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917) **October, 1985**

SECTION I

MANUFACTURER'S NAME Kex Products, Inc.		EMERGENCY TELEPHONE NO. (618) 393-2941
ADDRESS (Number, Street, City, State, and ZIP Code) Rt. 6, P.O. Box 452, Olney, IL 62450		
CHEMICAL NAME AND SYNONYMS Dithiocarbamate, Chlorinated Hydrocarbon		TRADE NAME AND SYNONYMS Non-Flammable cement
CHEMICAL FAMILY Dithiocarbamate, Chlorinated Hydrocarbon	FORMULA Mixture	

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 *See below		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
* CAS REGISTRY NO	CHEMICAL NAME		OSHA PEL	ACGIH TLV	Stel
71-55-6	1,1,1-Trichloroethane		350 ppm	350 ppm	450 ppm
35884-05-0	Zinc Dibutyl Dithiocarbamate/		N.E*	N.E*	N.E*
	Dibutylamine Complex				

*None established

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	162	SPECIFIC GRAVITY (H ₂ O=1)	approx	1.27
VAPOR PRESSURE (mm Hg.)	3250 122	PERCENT VOLATILE BY VOLUME (%)		90
VAPOR DENSITY (AIR=1)	4.54	EVAPORATION RATE (Water = 1)		0.35
SOLUBILITY IN WATER	negligible			
APPEARANCE AND ODOR	Turbid liquid with slight tan color with chlorinated Hydrocarbon odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	none	FLAMMABLE LIMITS	none established	Lel	Uel
EXTINGUISHING MEDIA	water, dry chemicals, or carbon dioxide				
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear NIOSH/MSHA approved pressure-demand, self-contained breathing apparatus.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Decomposition or burning can produce Hydrogen Chloride or possibly traces of phosgene.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

Dizziness, nausea, headache, loss of concentration, drunkenness, lethargy, numbness if swallowed, vomiting, and aspiration into lungs may lead to pneumonia and pulmonary edema.

EMERGENCY AND FIRST AID PROCEDURES I - Inhalation:

Remove to fresh air. Artificial respiration, if not breathing. If breathing difficult, give oxygen. Call a physician. EYES & SKIN: Flush with water remove contaminated clothing. INGESTION: Drink lots of water, DO NOT induce vomiting. Note to Physician: Never administer adrenalin.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Avoid open flames, hot glowing surfaces
	STABLE	X	or electric arc.

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	N.A.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate area and provide maximum ventilation. Use proper respiratory and skin/eye protection. Dike area to contain spill. Absorb spilled material with sawdust and vermiculite, sweep into closed containers for disposal. Do not flush to sewer. After all visible traces have been removed, thoroughly wet vacuum area.

WASTE DISPOSAL METHOD

Contaminated absorbents must be disposed of in a permitted hazardous waste management facility in accordance with Federal, State, and local regulations regarding disposal.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Use a NIOSH self-contained breathing apparatus for emergencies.

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES Rubber	EYE PROTECTION Splash-Proof goggles
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OTHER PROTECTIVE EQUIPMENT
Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not use in poorly ventilated area without proper respiratory protection.

Store in closed properly labeled containers.

OTHER PRECAUTIONS

Avoid contamination of water supplies.

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