

HMIS RATING	
Health	3
Flammability	1
Reactivity	1

MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	3
Flammability	3
Reactivity	1
NFPA 30B LEVEL	
N/A	

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1. PRODUCT IDENTIFICATION

PART NUMBER 52-237
PRODUCT NAME KEX/Perfucure Chemical Activator Cement
CHEMICAL FAMILY N/A
DOT SHIPPING 6.1 (Harmful - store away from foodstuffs)

2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
*Trichloroethylene (79-01-6)	50ppm	50ppm	200ppm	>90%
Zinc Oxide (1314-13-2)	15mg/m ³	10mg/m ³	-	<2
N-Ethyleclohexylamine (5459-93-8)	None	None	-	<1
Zinc Di-n-butylthiocarbamate (136-23-2)	NE	NE	-	<1
Zinc Dimethyldithiocarbamate (137-30-4)	NE	NE	-	<1

NE=Not Established

All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture of trade name product is sold. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

3. PHYSICAL DATA

BOILING POINT (RANGE)	Approx. 186° F
VAPOR PRESSURE PSIG @ 20°C	57.8 mmHg
VAPOR DENSITY (AIR = 1)	Approx. 4.54
SOLUBILITY IN WATER	<1%
SPECIFIC GRAVITY (H ₂ O = 1)	Approx. 1.4
MELTING/FREEZING POINT	Approx. -122° F
EVAPORATION RATE (Butyl Acetate=1)	6.0
VOC content (by weight)	95%
APPEARANCE AND ODOR	Yellow-brown liquid/ether-like odor

4. FIRE AND EXPLOSION DATA

FLASH POINT	None
UPPER EXPLOSIVE LIMIT (%)	52%
LOWER EXPLOSIVE LIMIT (%)	7.0%
EXTINGUISHING MEDIA	Dry chemical, CO ₂ , foam
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should wear NIOSH approved positive pressure self-contained breathing apparatus for possible exposure to hydrogen chloride and traces of phosgene due to burning; cool exposed containers with water.

FIRE AND EXPLOSION HAZARDS Vapors concentrated in confined or poorly ventilated areas can be ignited upon contact with a high energy spark, flame or high intensity heat source. This can occur at concentrations ranging from 7-52% by volume. Trichloroethylene vapors are heavier than air and will collect in low areas.

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY Eyes, skin, inhalation, ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC) ... Excessive exposure may cause eye discomfort, skin dermatitis, nose, throat, mouth and digestive tract irritation, nervous system depression (drowsiness, dizziness, loss of coordination) and irregular heart beats. Swallowing or vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition. Chronic overexposure above the OSHA PEL may result in liver and kidney damage.

SIGNS & SYMPTOMS OF EXPOSURE Inhalation or ingestion may cause irregular heartbeats, dizziness, light headedness, headaches, nausea, loss of coordination and equilibrium or unconsciousness. Prolonged or repeated contact with skin may cause irritation, dryness, or dermatitis.

MEDICAL CONDITIONS GENERALLY

AGGRAVATED BY EXPOSURE Inhalation may cause increased breathing difficulty for persons with impaired lung function or asthma-like conditions. Pre-existing heart and skin disorders may be aggravated or more susceptible to irritation.

5. HEALTH EFFECTS DATA (CONT'D)

FIRST AID PROCEDURES

SKIN CONTACT Wash with soap, large volumes of water; get medical attention if irritation persists.

INGESTION Do not induce vomiting; obtain immediate medical attention; if victim is conscious and alert, drink large quantities; do not give anything orally to an unconscious person; if vomiting occurs, hold head below hips to prevent aspiration into lungs.

INHALATION Remove to fresh air or give oxygen; administer artificial respiration if necessary.

EYES Flush with water for at least 15 minutes; obtain medical attention.

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) Not identified. There is no evidence to suggest carcinogenic activity when exposure is controlled below the permissible exposure limit (PEL). It is not listed as an *Extremely Hazardous Substance* in SARA Title III, Section 302. Trichloroethylene is listed on California Proposition 65 as a chemical known to cause cancer. New Jersey Right to Know: contains Butylene Oxide.

6. REACTIVITY

STABILITY Stable

INCOMPATIBILITIES Degrades in water; avoid caustic soda, potash, or other strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS CO₂, CO, hydrogen chloride, possible traces of phosgene, heavy dense smoke.

HAZARDOUS POLYMERIZATION Will not occur

HAZARDOUS POLYMERIZATION CONDITIONS None known

7. PRECAUTIONS FOR SAFE HANDLING & USE

PROTECTIVE EQUIPMENT

REQUIREMENTS Safety glasses; protective neoprene gloves; ventilation sufficient to maintain vapor concentrations below TLV; NIOSH approved respirator if TLV is exceeded.

WASH REQUIREMENTS Wash with soap and water.

SPILL OR LEAK PROCEDURES Evacuate area and provide maximum ventilation; protect from ignition; use proper personal protection; use absorbent material and scrape into closed container for disposal.

WASTE DISPOSAL METHODS Dispose of in accordance with local, state, and federal regulations; Hazardous Waste Number U228.

HANDLING & STORAGE Keep product containers cool; use and store with adequate ventilation; avoid contamination of water supplies; aluminum containers should not be used for storage.

OTHER PRECAUTIONS Do not breathe vapors; avoid eye contact and prolonged contact with skin; do not ingest.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

KIMBALL
MIDWEST
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