

HMIS RATING	
Health	2
Flammability	3
Reactivity	0

## MATERIAL SAFETY DATA SHEET

NFPA 704 RATING	
Health	2
Flammability	3
Reactivity	0
NFPA 30B LEVEL	
N/A	

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### 1. PRODUCT IDENTIFICATION

PART NUMBER ..... 80-870  
PRODUCT NAME ..... Metalex  
CHEMICAL FAMILY ..... N/A  
DOT SHIPPING ..... Consumer Commodity ORM-D

### 2. HAZARDOUS INGREDIENTS

SPECIFIC CHEMICAL IDENTITY, COMMON NAMES	OSHA PEL	ACGIH TLV	STEL	%
*POWERED ALUMINIUM (7429-90-5)	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>		43 - 57
Barium Sulfate (7727-43-7)	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>		20-30
*METHYL ETHYL KETONE (78-93-3)	200ppm	200ppm	300ppm	5-10
*TOLUENE (108-88-3)	500ppm	50ppm		5-10

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. \*\*Ceiling

### 3. PHYSICAL DATA

BOILING POINT (RANGE)..... 175 to 231°F  
VAPOR PRESSURE PSIG @ 70°F ..... N/A  
VAPOR DENSITY (AIR = 1) ..... Not Determined  
SOLUBILITY IN WATER ..... Negligible to slight  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1) ..... 1.77g/ml  
MELTING/FREEZING POINT ..... N/A  
EVAPORATION RATE (61%=1) ..... <1  
VOC content (by weight) ..... 10%  
APPEARANCE AND ODOR..... Gray or aluminum-gray colored  
semi-solid/ aromatic solvent odor

### 4. FIRE AND EXPLOSION DATA

FLASH POINT ..... N/A  
UPPER EXPLOSIVE LIMIT (%) ..... N/A  
LOWER EXPLOSIVE LIMIT (%) ..... N/A  
EXTINGUISHING MEDIA..... Fire-fighting foam, CO<sub>2</sub>, dry chemical. Water spray.  
SPECIAL FIREFIGHTING PROCEDURES..... Fire fighters should wear self-contained breathing apparatus and full protective gear. Avoid breathing vapors, gases and fumes. If safe to do so, shut off all gas pilot lights and electrical (spark or hot-wire) igniters and other sources of ignition.  
FIRE AND EXPLOSION HAZARDS..... **FLAMMABLE LIQUID & VAPOR.** Contains aluminum, barium sulfate, toluol and methyl ethyl ketone. Use only with adequate ventilation.  
NFPA Flammability Hazard ..... N/A

### 5. HEALTH EFFECTS DATA

#### SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY..... Inhalation. Skin and/or eye contact. Ingestion.  
HEALTH HAZARDS (ACUTE AND CHRONIC)..... Vapor Harmful - may affect the brain or nervous system, causing dizziness, headache, or nausea. Causes eye, skin, nose and throat irritation. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. May be harmful if swallowed. Ingestion could cause irritation of the gastrointestinal tract and other systemic effects from absorption. A link between aluminum exposure and neurological diseases, such as Alzheimer's disease, has been suggested.

#### MEDICAL CONDITIONS GENERALLY

AGGRAVATED BY EXPOSURE Individuals with diseases of the nervous system, respiratory tract, skin, heart, liver, and kidneys should avoid or limit exposure. Those persons susceptible to dermatitis should limit skin contact

### 5. HEALTH EFFECTS DATA CON'T

#### FIRST AID PROCEDURES

EYE CONTACT..... Hold eyelids apart and immediately flush eyes with plenty of luke warm, gently flowing water for at least 15 minutes. Get medical attention.  
SKIN CONTACT..... Remove contaminated clothing and shoes. Wash affected areas with soap and water. Get medical attention immediately if irritation (redness, rash, blistering) develops. Wash clothing before reuse.  
INGESTION..... If swallowed, DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Obtain medical attention. Administer artificial respiration. If the victim is conscious: Drink 2-3 large glasses of water. Never give anything by mouth to an unconscious victim or a person losing consciousness.  
INHALATION..... Remove the person away from exposure to fresh air.

#### SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA Guidelines) This product contains a chemical known to the State of California to cause cancer, birth defects, and/or other reproductive harm; repeated and prolonged overexposure to solvents are associated with permanent brain and nervous system damage; intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal

### 6. REACTIVITY

STABILITY..... Stable  
INCOMPATIBILITIES ..... Strong oxidizing agents, reducing agents, acids, alkalis and aliphatic amines. May attack some rubber and plastics.

#### HAZARDOUS DECOMPOSITION

PRODUCTS ..... Thermal oxidations (i.e. "burning") may produce decomposition products of carbon and nitrogen. Burning at extreme temperatures may produce oxides of aluminium and barium.

HAZARDOUS POLYMERIZATION ..... Will not occur under normal conditions.

HAZARDOUS POLYMERIZATION CONDITIONS..... None known.

### 7. PRECAUTIONS FOR SAFE HANDLING & USE

#### PROTECTIVE EQUIPMENT

REQUIREMENTS..... Tightly sealed goggles and chemical resistant gloves made of Teflon or Viton. Local exhaust ventilation may be necessary to control air contaminants to within TLVs during the use of this product.  
WASH REQUIREMENTS..... Wash with soap and water.  
SPILL OR LEAK PROCEDURES Absorb spill with inert material (e.g. dry sand or earth), then place in chemical waste container.  
WASTE DISPOSAL METHODS Dispose of in accordance with local, state, and federal regulations.  
HANDLING & STORAGE ..... Do not allow to freeze. Avoid temperatures above 120°F  
OTHER PRECAUTIONS ..... Use NIOSH approved respirator with an organic vapor cartridge; avoid prolonged breathing of vapors; protection provided by air purifying respirators is limited.

### 8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

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

Specializing in Materials Management since 1923