



A Branch of Wilbur-Ellis Company

MATERIAL SAFETY DATA SHEET

Liquid Nut Mix

Kraft Lignosulfonate Complexed

I. NAME

PRODUCT/TRADE NAME: LIQUID NUT MIX (Kraft Lignosulfonate Complexed)
 EPA REGISTRATION #: NONE
 CHEMICAL NAME/Common Name:
 Copper Sulfate Pentahydrate/Copper Sulfate
 Manganese Sulfate/Manganese Sulfate
 Zinc Sulfate/Zinc Sulfate

II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Copper Sulfate	7758-99-8	1 mg/m ³	1 mg/m ³
Manganese Sulfate	7785-87-7	5 mg/m ³	5 mg/m ³
Zinc Sulfate	7733-02-0	NE	NE

III. PHYSICAL DATA

SPECIFIC GRAVITY (H₂O = 1): 1.31
 MELTING POINT: NA
 VAPOR DENSITY (AIR = 1): NA
 % VOLATILES BY VOL.: NA
 ODOR: Acrid
 APPEARANCE: Black Liquid
 FLASH POINT/METHOD: NA
 VAPOR PRESSURE (mmHg): NA
 SOLUBILITY IN H₂O: Soluble

III. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA: Water Fog Foam Alcohol Foam
 CO₂ Dry Chemical Other

FIRE FIGHTING PRECAUTIONS & HAZARDS:

Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective equipment. Avoid breathing smoke or mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

IV. CARCINOGEN STATUS

OSHA NTP IARC No Listing Type

V. REACTIVITY

Stable HAZARDOUS POLYMERIZATION
 Unstable May Occur Will Not Occur
 AVOID: Aluminum, steel, copper, flammable organics or high temperatures.
 HAZARDOUS DECOMPOSITION PRODUCTS: CO_x, NO_x, ZnO, NH₃, SO_x

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate personal protective equipment. Absorb with inert material and vacuum or sweep into an approved disposal container.
 DECONTAMINATION: Treat area with detergent and water. Absorb with inert material. Place in disposal container and repeat as necessary until area is clean.
 ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses.
 DISPOSAL: Dispose of in accordance with Federal, State and local regulations.

VII. HEALTH PRECAUTION DATA

INGESTION: Do not ingest. Wash thoroughly before eating, drinking or smoking.
 INHALATION: No PEL/TLV established for this product. Do not breathe spray mist. Wear proper respiratory protection for exposures encountered.
 SKIN ABSORPTION: Avoid contact with skin. Can cause skin irritation. Wear proper personal protective equipment to reduce skin exposure.
 EYE EXPOSURE: Keep out of eyes. Can cause eye irritation. Wear proper eye protection. If exposed, flush eyes for a minimum of 15 minutes with water.
 EFFECTS OF OVEREXPOSURE: Can cause skin and eye irritation. Ingestion can cause violent vomiting and diarrhea. Symptoms of overexposure can include mask-like facial expression, spastic gait, tremors, slurred speech, fatigue and insomnia. No known chronic effects. Preexisting medical conditions involving the above symptoms may be aggravated by exposure.

FIRST AID: In all cases, get prompt medical attention. If ingested, give several glasses of water and induce vomiting. Do not induce vomiting if person is unconscious. For skin exposure, remove contaminated clothing and wash with soap and water. For eye exposure, flush eyes with water for a minimum of 15 minutes. If inhaled, remove victim to fresh air, and administer CPR if necessary.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Recommend use of NIOSH/MSHA-approved respirator for organic vapors for up to 10 times the PEL/TLV. Positive pressure self-contained breathing apparatus should be used for confined space entry and high exposure operations.
 PERSONAL PROTECTIVE EQUIPMENT: Neoprene or rubber gloves, long-sleeved coveralls and chemical goggles.
 VENTILATION: General ventilation sufficient for intended use.

IX. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions. Do not store in steel or aluminum tanks.

X. REGULATORY DATA

SARA HAZARD CLASS: Acute Chronic Flammable
 Pressure Reactive None
 SARA 313: Yes No Chemical: Zn, Mn, Cu Compounds
 SARA 302: Yes No Chemical:
 TPQ:
 CERCLA: Yes No Chemical: Fe Sulfate, Zn Sulfate
 RQ: 1000*, 1000*
 RCRA: Yes No

NFPA HAZARD RATING:

Health: [2]	0 = Minimal	3 = Serious
Fire: [1]	1 = Slight	4 = Severe
Reactivity: [0]	2 = Moderate	
Special: []		

HMS CODES:

Health: [2]	0 = Minimal	3 = Serious
Fire: [1]	1 = Slight	4 = Severe
Reactivity: [0]	2 = Moderate	

DATE PREPARED: June 21, 2012

REVISED DATE:

Notice: This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Wilbur-Ellis disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to his particular use.

*Technical Material NE - Not Established NA - Not Applicable

24 Hour Emergency Phone Number
CHEMTREC: (800) 424-9300

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