



Product Name: FeMet® Liquid Iron Methionine

MATERIAL SAFETY DATA SHEET

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PRODUCT INFORMATION & COMPOSITION

PRODUCT NAME: FeMet® CAS #: None
TRADE NAME / SYNONYM: (2-amino-4-methylthiobutanoate) iron (II) sulfate where $a = 1$ or 2 , $x = \frac{1}{2}$ or 0 , and $n = 2$ or 4
bis(2-amino-4-methylthiobutanoate)iron (II)

NFPA RATINGS (scale 0-4): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0

PRODUCT COMPOSITION (W/W)	CAS NUMBER	CHEMICAL NAME
32 %	NA	IRON (II) METHIONINE SULFATE ¹
18%	NA	INORGANIC SULFATE SALTS
50 %	7732-18-5	WATER

PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: LIGHT TO DARK BROWN SOLUTION
SPECIFIC GRAVITY (H₂O=1): 1.414 VAPOR PRESSURE (MM HG): 23.8 @ 25°C
PH: 3.30 SOLUBILITY IN WATER: MODERATELY SOLUBLE
FLASHPOINT (TAG CLOSED CUP): NA VOLATILITY: NA
MELTING POINT: 25°F (-4°C) BOILING POINT: 220°F (104°C)
STABILITY: STABLE; DECOMPOSES ABOVE 500°F (260°C) HAZARDOUS POLYMERIZATION: NONE
INCOMPATIBILITIES: OXIDIZERS; CONCENTRATED STRONG ACIDS AND BASES

HEALTH HAZARDS, EXPOSURE LIMITS, & CARCINOGENICITY

AN EXPOSURE LIMIT FOR THIS PRODUCT HAS NOT BEEN ESTABLISHED. EXPOSURE LIMITS FOR IRON (II) SULFATE ARE:

ACUTE TOXICITY: LD₅₀ (ORAL): 1.5 G/KG CARCINOGEN STATUS: NONE
ACUTE EFFECTS: MODERATELY TOXIC TARGET ORGANS: LIVER, RESPIRATORY AND GASTROINTESTINAL TRACTS, KIDNEYS

¹IRON IS SUBJECT TO THE REQUIREMENTS OF 40 CFR PART 372, SARA TITLE III SECTION 313, AND SECTION 112 OF THE CLEAN AIR ACT AMENDMENTS.

EMERGENCY, PRECAUTIONARY AND FIRST AID PROCEDURES

SKIN CONTACT: WASH THOROUGHLY WITH WATER FOR A MINIMUM OF 15 MINUTES. CONTACT MEDICAL AUTHORITIES.

EYE CONTACT: REMOVE CONTACT LENSES. WASH THOROUGHLY WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. CONTACT MEDICAL AUTHORITIES IMMEDIATELY.

INGESTION: DO NOT INDUCE VOMITING. ADMINISTER 8-12 OUNCES OF WATER OR MILK. SEEK IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION IF BREATHING DIFFICULTY DEVELOPS.

FIRE: USE DRY CHEMICAL OR FOAM EXTINGUISHING MEDIA; NOT CONSIDERED A FIRE HAZARD.

HANDLING: WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (GLASSES, GOGGLES, & FACE SHIELD) TO PREVENT EYE CONTACT. APPROPRIATE MEASURES MUST ALSO BE TAKEN TO PREVENT PROLONGED SKIN CONTACT AND INHALATION EXPOSURES. SUCH MEASURES SHOULD INCLUDE, AT A MINIMUM, RUBBER GLOVES AND ENGINEERING CONTROLS TO MINIMIZE EXPOSURE RISKS.

TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: NOT CURRENTLY REGULATED HAZARD CLASS: NOT APPLICABLE

DATE PREPARED

APRIL 5, 2006