

**MATERIAL SAFETY DATA TECHNICAL INFORMATION  
SECTION I - IDENTIFICATION**

**CHEMICAL NAME AND SYNONYMS:** MICRONUTRIENT MIXTURE

**CHEMICAL FAMILY:** INORGANIC CHEMICAL

**PRODUCT USE:** FERTILIZER MICRONUTRIENT FOR BLENDING FOR SOIL APPLICATION

**TRADE NAME:** F 227 GC

**DESCRIPTION:** 40.0%Fe

**SECTION II**

<b>HAZARDOUS INGREDIENT</b>	<b>CAS NUMBER</b>	<b>THRESHOLD LIMIT VALUE</b>
Iron Oxide	1332372	5.00 mg Fe/m3
Iron Sulfate	7720787	1.00 mg Fe/m3

**EFFECTS-ACUTE EXPOSURE:** CAN CAUSE IRRITATION OF SKIN, EYES, AND RESPIRATORY SYSTEM.

**EFFECTS-CHRONIC EXPOSURE:** CAN CAUSE DAMAGE TO RESPIRATORY SYSTEM, URINARY SYSTEM, BLOOD SYSTEM, AND REPRODUCTIVE SYSTEM

**SECTION III-NORMAL HANDLING PROCEDURES**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

**PROTECTIVE EQUIPMENT:** YES

**RESPIRATORY PROTECTION:** APPROVED RESPIRATOR PER 29 CFR 1910.134

**EYES:** GOGGLES

**GLOVES:** HEAVY DUTY WORK GLOVES

**OTHER:** LONG SLEEVED SHIRTS

**VENTILATION REQUIREMENTS:** ADEQUATE TO REMOVE DUST FROM THE AIR

**NOTE:** HANDS, ARMS, AND FACE SHOULD BE WASHED PRIOR TO EATING, DRINKING, OR SMOKING.

**SECTION IV-EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IMMEDIATELY.

**SKIN:** FLUSH WITH WATER. IF IRRITATION DEVELOPS, CALL PHYSICIAN.

**EYES:** FLUSH WITH WATER FOR 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

**INGESTION:** SEEK MEDICAL ATTENTION IMMEDIATELY.

**SECTION V-FIRE AND EXPLOSION HAZARD DATA**

**THIS PRODUCT IS NONCOMBUSTIBLE**

**EXTINGUISHING MEDIA:** THIS PRODUCT IS NOT A FLAMMABLE MATERIAL, BUT METALLIC FUME CAN BE RELEASED UNDER INTENSE HEAT.

**SPECIAL FIREFIGHTING PROCEDURES OR FIRE HAZARD:** DO NOT WASH MATERIAL INTO ANY STREAMS, WATERWAYS, DRAINAGE DITCHES OR STORM SEWERS, ETC. IMPOUND LIQUIDS USED IN FIREFIGHTING TO PREVENT ENTRY INTO STREAMS, DITCHES, SEWERS, ETC.

**SECTION VI-SPILL AND LEAKAGE PROCEDURES**

REMOVE ALL SOURCES OF IGNITION. WEAR NIOSH/OSHA APPROVED DUST RESPIRATORS. FOLLOW OSHA REGULATIONS FOR RESPIRATOR USE. (SEE 29 CFR 1910.134). SHOVEL OR SWEEP UP AND REUSE. USE APPROVED LIQUID SPRAY TO REDUCE DUST WHEN SWEEPING OR SHOVELING.

**WASTE DISPOSAL METHOD:** DISPOSE OF CONTAMINATED PRODUCT, EMPTY CONTAINERS AND MATERIALS USED IN CLEANING UP SPILLS AND LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

**SECTION VII-SHIPPING DATA**

D.O.T. CLASS

NONCOMBUSTIBLE

**SECTION VIII-REACTIVITY DATA**

**STABLE:** YES **INCOMPATIBILITY:** NONE **CONDITIONS TO AVOID:** NONE

**SECTION IX-PHYSICAL DATA**

THIS IS A SOLID MATERIAL WHICH IS PARTIALLY SOLUBLE IN WATER  
**ODOR & APPEARANCE:** SLIGHT METALLIC ODOR, DARK BROWN GRANULE  
**VAPOR PRESSURE:** N/A **pH:** 4-6.5  
**BOILING POINT:** N/A **SPECIFIC GRAVITY:** 1.6