



MATERIAL SAFETY DATA SHEET

January 2001

Iron 22%

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Tiger Tech Iron 22%
Chemical Formula: Mixture of Iron and Sulphur
General Use: Ingredient for the manufacture of Bulk Blend Fertilizer

MANUFACTURER:

Tiger Industries.

6444-42 S.E.

Calgary, Alberta

T2C 2V1

Phone: (403) 279-2616

Fax: (403) 236-9049

EMERGENCY CONTACT:

(403) 279-2616 (8am-5pm)

(613) 996-6666 (**Canutec** 24 Hours)

SECTION II COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL INGREDIENTS (% By Wt.)

Iron Compounds	CAS#: 1309-37-1	(22%)
Sulphur Compounds	CAS#: 7704-34-9	(55%)
Inert Ingredients/Filler		(23%)

SECTION III PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance and Odor: Charcoal gray with a slight sulphur odor

Vapor Pressure: N/A

Vapor Density (Air = 1): N/A

Specific Gravity = 5.6 gm/ml

PH: Neutral when dry

Water Solubility: Insoluble

Boiling Point: 444⁰C (832⁰F)

Melting Point: 119⁰C (246⁰F)

% Volatile: NA

Evaporation Rate: NA

SECTION IV FIRE FIGHTING MEASURES

Flash Point: 190 °C (dust clouds) 220°C (Non-dispersed dust)

Flammable Limits: LEL: 35 gm/m³ UEL: 1400 gm/m³

Unusual Fire or Explosion Hazards: Dust suspended in air is readily ignited by flame, static electricity, or friction spark. Every reasonable step must be taken to minimize dust formation. Dust tight casings should be equipped with explosion relief vents. Sparkless electrical equipment is recommended. Handling equipment must be grounded or bonded to avoid static electricity. Keep away from sources of flame or sparks. Detailed recommendations in Manufacturing Chemists Association SD-74 and National Safety Council 612 Bulletins covering "Sulphur" should be followed when handling this product.

Hazardous Combustion Products: Because burning sulphur creates sulphur dioxide, breathing apparatus or gas masks approved for use in acid-gas atmosphere should be used. Fumes from unprotected sulphur fires shall be avoided, if possible, by approaching from the upwind side.

Fire Fighting Instructions: Hoses and extinguishers with pressure streams should be avoided where solid sulphur is dusty or where it may create a further hazard by raising more dust clouds.

Fire Fighting Equipment: A fine water spray or fog is recommended
CO₂ or dry chemical
Small fires may be smothered with sand or solid sulphur

SECTION V: STABILITY AND REACTIVITY

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Hazardous Decomposition Products: None

Chemical Incompatibility: None

Conditions to Avoid: The main hazards are fire and dust explosions.

SECTION VI: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a stable solid. It is charcoal gray in appearance with no appreciable odor. The product may cause irritation to the skin after prolonged contact. The product should be stored and handled to prevent the possibility of inhalation, eye contact, and prolonged skin contact.

*Potential Health Effects

Primary Entry Routes: Inhalation is the most significant route of exposure in occupational and other settings. Prolonged dermal exposure may cause skin irritation. Ingestion may cause stomach upset.

Target Organs: Eyes, Skin, respiratory system.

Acute Effects

Inhalation: Occasional mild irritation effects to the nose and throat may occur from inhalation.

Eye: Irritation may occur.

Skin: Irritation may occur

Ingestion: Stomach upset may occur.

Chronic Effects: Same as acute.

Eye Effects: Not Determined

Oral: Not Determined

Dermal: Not determined

Inhalation: Human, inhalation, TCL₀: Not determined

Chronic/Carcinogenicity: Not Determined

Teratology: Not Determined

Mutagenicity: Not Determined

SECTION VII EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: None

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec.2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use, and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

Protective Clothing/Equipment: Wear protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety glasses. Contact lenses are not eye protection devices. Appropriate eye protection must be worn, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, and washing facilities available in work area.

Small Spills: Sweep up and try to keep dust to a minimum.

Large Spills: Sweep up and try to keep dust to a minimum.

Containment: Do not release into sewers or waterways.

Handling Precautions: None

Storage Requirements: Store in a dry location.

Regulatory Requirements: None

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations. This product has been evaluated for RCRA characteristics and should not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting materials hazardous.

Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations.

Container Cleaning and Disposal: Wipe containers clean.

SECTION VIII FIRST AID MEASURES

EYES: Flush with running water for at least 15 minutes. Seek medical attention if irritation persists.
SKIN: Wash with water. If irritation persists, seek medical attention.
INGESTION: Irritation may occur, seek medical attention.
INHALATION: Remove to fresh air environment. Seek medical attention.

*** After first aid, get appropriate in-plant, paramedic, or community medical support.**

Note to Physicians: None

Special Precautions/Procedures: None.

SECTION XVI OTHER INFORMATION

Disclaimer: Tiger Industries recommends that all exposures to this product be minimized by strictly adhering to recommended occupational controls procedures to avoid adverse effects.

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