

MATERIAL SAFETY DATA SHEET

Ferrochrome Lignosulfonate

No Hazardous according to criteria of Worksafe

1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

Trade Name: Ferrochrome Lignosulfonate		
Supplier Details:	Name	MUDANJIANG HONGLIN CHEMICAL CO., LTD
	Address:	NO.6 XILIN ROAD MUDANJIANG CITY HEILONGJIANG CHINA Tel: 0086-453-6592114 Fax: 0086-453-6592114
Chemical Name Or Synonym: Ferrochrome Lignosulphonate; Lignosulphonate CAS NO.: 78-90-3		Molecular Formula: N/A

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Dust may cause mechanical irritation to skin, eyes and respiratory tract. low hazard for usual industrial or commercial handling. Can decompose at high temperatures forming toxic gases. See "other Health Effects" section.

POTENTIAL HEALTH EFFECTS

. Inhalation: Products may be mildly irritation to the nose, throat and respiratory tract and may cause coughing and sneezing. Excessive contact with powder may cause drying of mucous membranes of nose and throat due to absorption of moisture and oils. See "other health effects" section.

. Skin Contact: This products may cause irritation due to abrasive action. Excessive contact with powder may cause drying of skin due to absorption of moisture and oils. May cause defatting, drying and cracking of the skin.

. Skin Absorption: Not likely to be absorbed through the skin.

May cause pneumoconiosis. Pneumoconiosis is the deposition of dust in the lungs and the tissue's reaction to its presence. When exposure to the dust is severe or prolonged, the lungs' defenses are overwhelmed. Sodium salts have a hypothetical risk of hypernatremia.

3. COMPOSITION, INFORMATION ON INGREDIENTS (Not Intended As Specifications)

Hazardous Ingredients: None according to Controlled Products Regulations.

Non-Hazardous Ingredients CAS No. ACGIH TLV %

Ferrochrome Ligno-sulphonate 78-90-3 Not Listed. 95 - 100

4. FIRST AID MEASURES

FIRST AID PROCEDURES

. Inhalation: If respiratory problems arise, move the victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice IMMEDIATELY.

. Skin Contact: Start flushing while removing contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice.

. Eye Contact: Immediately flush eyes thoroughly for 5 minutes with running water. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention.

. Ingestion: Do not attempt to give anything by mouth to an unconscious person. If victim is alert and not convulsing, rinse mouth out and give 1/2 to 1 glass of water to dilute material. DO NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Obtain medical attention IMMEDIATELY.

Note to Physicians: Treat symptomatically. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammability Class (WHMIS): Not regulated.

Flash Point (TCC, Deg. Celsius): Does not flash.

Autoignition Temperature (Deg. Celsius): 400. (3)

Flammability Limits in Air (%): LEL: 0.2 oz/ft³. (3) UEL: 3.5 oz/ft³. (3)

Hazardous Combustion Products: Thermal decomposition products are toxic and may include oxides of carbon, sulphur, sodium and irritating gases.

Unusual Fire or Explosion Hazards: In common with many organic chemicals in powder form, this product may be capable of forming flammable dust clouds in air. Avoid accumulation and dispersion of dust to reduce explosion potential. Minimize air borne spreading of dust. Spilled material may cause floors and contact surfaces to become slippery.

Sensitivity to Mechanical Impact: Not expected to be sensitive to mechanical impact.

Rate of Burning: Not available.

Explosive Power: Not available.

Sensitivity to Static Discharge: Expected to be sensitive to static discharge when dust is present between the lower and upper explosive limits.

EXTINGUISHING MEDIA

Fire Extinguishing Media: Foam. Dry Chemical, Carbon dioxide or water spray. Use media appropriate for surrounding fire and/or materials.

FIRE FIGHTING INSTRUCTIONS

Instructions to the Fire Fighters: Isolate materials that are not involved in the fire and protect personnel.

Fire Fighting Protective Equipment: Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Information in this section is for responding to spills, leaks or releases in order to prevent or minimize the adverse effects on persons, property and the environment. There may be specific reporting requirements associated with spills, leaks or releases, which change from region to region.

Containment and Clean-Up Procedures: In all cases of leak or spill contact vendor at Emergency Number shown on the front page of this MSDS. In common with many organic chemicals in powder form, this product may be capable of forming flammable dust clouds in air. Avoid accumulation and dispersion of dust to reduce explosion potential. Wear respirator, protective clothing and gloves. Avoid dry sweeping. Do not use compressed air to clean surfaces. Vacuuming or wet sweeping is preferred. Any recovered product can be used for the usual purpose, depending on the extent and kind of contamination. Collect product for recovery or disposal. Ventilate enclosed spaces. Notify applicable government authority if release is reportable or could adversely affect the environment.

7. HANDLING AND STORAGE HANDLING

Handling Practices: In common with many organic chemicals in powder form, this product may be capable of forming flammable dust clouds in air. Use normal "good" industrial hygiene and housekeeping practices. Minimize air borne spreading of dust. Clean up immediately to eliminate slipping hazard.

Ventilation Requirements: See Section 8, "Engineering Controls".

Other Precautions: Use only with adequate ventilation and avoid breathing dusts. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing thoroughly before re-use.

STORAGE

Storage Temperature (Deg Celsius): See below.

Ventilation Requirements: General exhaust is acceptable.

Storage Requirements: Store in a cool, dry and well-ventilated area. Keep away from heat, sparks and flames. Keep containers closed. Avoid moisture contamination. Prolonged storage may result in lumping or caking. Protect from direct sunlight. Protect against physical damage.

Special Materials to be Used for Packaging or Containers: Confirm suitability of any material before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

ENGINEERING CONTROLS

Engineering Controls: General exhaust is acceptable. Local exhaust ventilation preferred. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Avoid accumulation and dispersion of dust to reduce explosion potential. Ventilate low lying areas such as sumps or pits where dense dust may collect.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye Protection: Safety glasses with side shields are recommended to prevent eye contact. Use chemical safety goggles when there is potential for eye contact. Contact lenses

should not be worn when working with this material.

Skin Protection: Gloves and protective clothing made from cotton, canvas, rubber or plastic should be impervious under conditions of use. Prior to use, user should confirm impermeability. Discard contaminated gloves.

Respiratory Protection: No specific guidelines available. A NIOSH/MSHA approved dust mask for concentrations of nuisance dust up to 100 mg/M³ particulate. An air-supplied respirator if concentrations are higher or unknown.

If while wearing a respiratory protection, you can smell, taste or otherwise detect anything unusual, or in the case of a full facepiece respirator you experience eye irritation, leave the area immediately. Check to make sure the respirator to face seal is still good. If it is, replace the filter, cartridge or canister. If the seal is no longer good, you may need a new respirator. (4)

Other Personal Protective Equipment: Wear regular work clothing. The use of coveralls is recommended. Locate safety shower and eyewash station close to chemical handling area. Take all precautions to avoid personal contact.

EXPOSURE GUIDELINES

Particulate Not Otherwise Classified

ACGIH OSHA

10 mg/M³ - Inhalable particulate 50 mppcf* or 15 mg/M³ -
Total Dust

3 mg/M³ - Respirable particulate. 15 mppcf* or 5 mg/M³ -
Respirable Fraction

* mppcf = million particles per cubic foot

9. PHYSICAL AND CHEMICAL PROPERTIES (Not intended as Specifications)

Physical State: Solid.

Appearance and Odour: Dark brown powder. a bit sour

Odour Threshold (ppm): Not available.

Boiling Range (Deg Celsius): Not applicable.

Melting/Freezing Point (Deg Celsius): Not applicable.

Vapour Pressure (mm Hg at 20 Deg. Celsius): Not applicable.

Vapour Density (Air = 1.0): Not applicable.

Relative Density (g/cc): Not available.

Bulk Density: 370 to 560 Kg/M³. (3)

Viscosity: Not applicable.

Evaporation Rate (Butyl Acetate = 1.0): Not applicable.

Water Solubility: Soluble in water.

Solubility: Insoluble in most organic solvents.

% Volatile by Volume: 6 to 8 % By Weight. (3)

pH: 2.5~5.0(3 % Aqueous Solution). (3)

Coefficient of Water/Oil Distribution: Not available.

Volatile Organic Compounds (VOC): Not applicable.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Under Normal Conditions: Stable.

Under Fire Conditions: Not readily flammable, but will support combustion.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: High temperatures, sparks, open flames and all other sources of ignition. Minimize air borne spreading of dust. Avoid accumulation and dispersion of dust to reduce explosion potential. Sweep up immediately to eliminate slipping hazard.

Materials to Avoid: Oxidizing agents.

Decomposition or Combustion Products: Thermal decomposition products are toxic and may include oxides of carbon, sulphur, sodium and irritating gases.

11. TOXICOLOGICAL INFORMATION

Toxicological Data: None established for this product.

Ferrochrome Ligno-Meaningful toxicological test data sulphonate could not be found for this substance.

Carcinogenicity Data: The ingredient(s) of this product is (are) not classed as carcinogenic by ACGIH, IARC, OSHA or NTP.

Reproductive Data: No adverse reproductive effects are anticipated.

Mutagenicity Data: No adverse mutagenic effects are anticipated.

Teratogenicity Data: No adverse teratogenic effects are anticipated.

Respiratory / Skin Sensitization Data: None known.

Synergistic Materials: None known.

Other Studies Relevant to Material: None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to aquatic life.

Ferrochrome Lignosulphonate: 48-hour LC50 (Rainbow Trout) = 7,300 ppm. (4)

Environmental Fate: Not available. Can be dangerous if allowed to enter drinking water intakes. Product has an unæsthetic appearance and can be a nuisance. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

13. DISPOSAL CONSIDERATIONS

Deactivating Chemicals: None required.