

MATERIAL SAFETY DATA SHEET

L-FERROUS LACTATE

MSDS NO : 007

SECTION 1- MATERIAL/COMPANY IDENTIFICATION

Chemical Name	Iron(II)-L(S)-2-hydroxypropionate
Company Name	Musashino Chemical (China) Co., Ltd.
Address	No.66 Chunfeng Rd. Economic & Technological Development Zone of Yichun, Jiangxi. 336000 China
Charge Department for MSDS	Safety Management Department
Responsibility for MSDS	Fan Gui-Zeng
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SECTION 2- COMPSITION/INFORMATION ON INGREDIENTS

Chemical name	Iron(II)-L(S)-2-hydroxypropionate
Component	96%up
Formula	$\text{Fe} [\text{CH}_3\text{CH} (\text{OH}) \text{COO}]_2 \cdot 2\text{H}_2\text{O}$
Mol.W.	233.99 (anhydrous)
CAS NO.	5905-52-2

SECTION 3- HAZARDS IDENTIFICATION

Hazards	Non
Human health effects	Non

SECTION 4- FIRST AID MEASURES

General advice	Show this safety data sheet to the doctor in attendance.
Skin contact	Immediately remove all contaminated clothing, including footwear. flush skin and hair with plenty of water or tepid water.
Eye contact	Immediately hold eyelids apart and flush eyes with plenty of water at least 15minutes.If irritation persists, call a physician.
Inhalation	Immediately remove to fresh air. If breathing is difficult, give oxygen, call a physician.
Ingestion	If swallowed, give plenty of water. If in doubt, Call a physician immediately.

SECTION 5- FIRE FIGHTING MEASURES

Extinguishing media	Water spray/fog, carbon dioxide(CO ₂), foam
Fire-fighting measures	Water spray/fog, carbon dioxide(CO ₂), foam
Hazard property	Non

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation, Wear personal protective equipment, Avoid contact with skin and eyes.
Environmental precautions	Prevent further leakage or spillage. Avoid generating dust
Methods for cleaning up	Place spilled material in clean, dry, sealable, labeled container Clean up the leaked place with plenty of water

SECTION 7- HANDLING AND STORAGE

Handling	Light light discharge when handling to prevent packaging and container damage
Storage	Keep container tightly closed. Keep in properly labeled containers. Store in areas shielded the light, and below room temperature. Keep away from strong acids and strong oxidisers
Packaging material	Plastic containers, Paper drum with plastic liner

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment	Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measure	Set up safety shower, hands washer and eyes washer nearby handling the materials. Indicate the positions distinctly. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.
Others	Near the workplace to provide safety shower and eye wash devices. Smoking is forbidden in the workplace, to eat and drink. After work, shower change clothes. To maintain good health habits

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale green to brown powder, special odor slightly
PH(1%)	5 ~ 6
Melting point	>200°C
Decomposition temperature	>200°C
Solubility	Soluble in water

SECTION 10- STABILITY AND REACTIVITY

Stability	Stable at normal conditions
Materials to avoid	Avoid oxidizing agents, acid
Hazardous decomposition products	Carbon oxides
Hazardous Polymerization	Non

SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 287 mg/kg bw. (Little rabbit veinl)
	LD50 578 mg/kg bw (Little rabbit Subcutaneous)
	LD50 147 mg/kg bw. (mouse oral)
Tumorigenic effects	LDLo : 4200 mg/kg bw.(L Mouse Subcutaneous)
	Ames test feminine
variation specificity	Chromosome abnormality test Have an effect on chlorophyll cells
	micronucleus test feminine

SECTION 12- ECOLOGICAL INFORMATION

Mobility	Completely soluble, readily biodegradable, does not occur hazardous polymerization.
Chemical Oxygen Demand (COD)	0.84 g O ₂ /g

SECTION 13- DISPOSAL CONSIDERATIONS

Contaminated packaging	Decontaminate empty containers with water, dilute with water and flush to waste system. Recycle containers if possible.
Further information	Treatment, storage, transportation, and disposal must be in accordance with local regulations.

SECTION 14- TRANSPORTATION INFORMATION

Packing label	Sticking properly on label, indicating material name, lot No., net weight etc.
Others	The materials transportation by vehicles, the sender serves deliverers with instructions for safe handling. In transportation confirm leakless of the container, and load the materials not to upset, fall and damage. Secure preventing the load from falling.

SECTION 15- REGULATORY INFORMATION

SAFETY USING CHEMICAL REGULATORY IN WORKING SITE (CHINA)

SECTION 16- OTHER INFORMATION

Revision Date	2020/06/01
LD50	median lethal dose
LDLo	minimum lethal dose