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MATERIAL SAFETY DATA SHEET

L-MAGNESIUM LACTATE

MSDS NO：010

SECTION 1- MATERIAL/COMPANY IDENTIFICATION

Chemical Name	Magnesium-L(S)-2-Hydroxy propionate
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	Magnesium-L(S)-2-Hydroxy propionate
Component	98%up
Formula	$[CH_3CH（OH）COO]_2Mg•2H_2O$
Mol.W.	202.45(anhydrous)
CAS NO.	18917-93-6

SECTION 3- HAZARDS IDENTIFICATION

Hazards	Ingestion may produce health damage. May cause eye irritation with susceptible persons.
Human health effects	
Swallowed	Accidental ingestion of the material may be harmful, animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
Eye	Although the material is not thought to be an irritant, direct contact with the eye may produce transient discomfort characterized by tearing or conjunctival redness.
Skin	The material is not thought to produce adverse health effects or skin irritation following contact. Nevertheless, good hygiene practice require that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Inhaled	The material is not thought to produce adverse health effects or skin irritation following contact. Nevertheless, good hygiene

	practice require that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Chromic health effects	No human exposure data avaible

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

Fire/explosion hazards	Solid which exhibits difficult combustion or is difficult to ignite. Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.Dust clouds generated by the fine grinding of the solid are a particular hazard, accumulations of fine dust may burn rapidly and fiercely if ignite.Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport..Building-up of electrostatic charge may be prevented by bonding and grounding.Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.Avoid contamination with strong oxidizing agents and high temperature. Thermal decomposition can lead to release of irritating gases and vapours
Fire extinguish	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus.Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. If safe to do so, remove containers form path of fire. Cool fire exposed containers with water spray from a protected location.
Extinguishing media	Water spray/fog, carbon dioxide(CO_2), foam

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	Keep the container well when handling. Handle the materials on clean clothes and in a cleaned room. Avoid dust formation
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

TLV-TWA	10 mg/m^3 (Inhalable particulate)
TLV-TWA	3mg/m^3 (Respirable particulate)
OEL-Sweden, United Kingdom	10mg/m^3 total dust， 5 mg/m^3 respirable dust
Engineering measures to reduce exposure	Ensure adequate ventilation, especially in confined areas
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.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystalline/ powder
PH(1%)	< 7
Melting point	>200℃
Decomposition temperature	>200℃
Bulk Density	670~1000 kg/m^3
Solubility	Soluble in water(1:2.5 cold, 1:3.5 heat)

SECTION 10- STABILITY AND REACTIVITY

Stability	Stable at normal conditions. Avoid temperatures above 200℃

	Hazardous polymerization does not occur.
Materials to avoid	Avoid oxidizing agents, acid
Hazardous decomposition products	Carbon oxides

SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 >2000 mg/kg (rat orall)
	LDLo 45 mg/kg (mouse intravenousl)
Local effects	May cause eye irritation with susceptible persons
Further information	General toxicity of soluble magnesium salts

SECTION 12- ECOLOGICAL INFORMATION

Mobility	Completely soluble, readily biodegradable, does not occur hazardous polymerization.
Chemical Oxygen Demand (COD)	0.98 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- TRANSPORATION INFORMATION

Transporation information	Sticking properly on label, indicating material name, lot No., net weight etc.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