MATERIAL SAFETY DATA SHEET  L-AMMONIUM LACTATE

SECTION 1- MATERIAL/COMPANY IDENTIFICATION

Company Name  Musashino Chemical (China) Co., Ltd.
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Charge Department  Safety Management Department
Responsibility for MSDS  Safety Manager Fan Gui-Zeng
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MSDS Revision Date  June 12, 2010

SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name  Ammonium-L(S)-2-Hydroxy propionate
Component  60% aqueous solution
Formula  CH₃CH(OH)COONH₄
Mol.W.  107.11
CAS NO.  515-98-0

SECTION 3- HAZARDS IDENTIFICATION

Hazards  May cause eye irritation with susceptible persons

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 15 minutes. 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

Specific hazards  Burning produces irritant fumes
Extinguishing media  Water, carbon dioxide (CO2), foam.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions  Wear personal protective equipment, Avoid contact with skin and
Environmental precautions
Prevent further leakage or spillage.

Methods for cleaning up
Burn in a incinerator after being absorbed with a combustible thing like a rage,
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

Storage
Keep container tightly closed. Keep in properly labeled containers.
Store in areas shielded the light, and below room temperature.
Avoid long storage times

Packaging material
Polyethylene plastic containers etc.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

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 measures
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
A colorless or yellowish liquid with a slight odor

PH
6 ~ 8

Boiling point
110℃ (60% solution)

Decomposition temperature
>200℃

Density (20℃)
1.15 ~ 1.18 g/ml

Solubility
Freely soluble in water

SECTION 10- STABILITY AND REACTIVITY

Stability
Stable at normal conditions. Hazardous polymerization does not occur.

Hazardous decomposition products
CO, NO
SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity
Health injuries are not known or expected under normal use

Local effects
May cause eye irritation with susceptible persons

Mutagenic properties
None

Carcinogenicity
None

SECTION 12- ECOLOGICAL INFORMATION

Mobility
Completely soluble, readily biodegradable does not occur hazardous polymerization.

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

Transportation 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)