

MATERIAL SAFETY DATA SHEET

D-ALANINE
MSDS NO.012

SECTION 1- MATERIAL/COMPANY IDENTIFICATION

Chemical Name	D-Alanine
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
Tel.	+86-795-3156266
Fax	+86-795-3196986
Emergency Tel.	+86-795-3156282

SECTION 2- HAZARDS IDENTIFICATION

Hazards	Not applicable
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SECTION 3- COMPSITION/INFORMATION ON INGREDIENTS

Chemical name	D-Alanine
Formula	CH ₃ CH(NH)COOH
Molecular Weight	89.1
CAS NO.	338-69-2

SECTION 4- FIRST AID MEASURES

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.

SECTION 5- FIRE FIGHTING MEASURES

Fire extinguish	Use water spray or extinguishing media
Extinguishing media	Carbon dioxide(CO ₂), foam
Hazards	Not applicable

SECTION 6- ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Place spilled material in clean, dry, sealable, labeled container Clean up the leaked place with plenty of water.
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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 oxidizers.
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 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	White powder or granular
Melting point	289~291°C
Solubility	Water 164.0g/L (25°C)

SECTION 10- STABILITY AND REACTIVITY

Stability	Stable.
Materials to avoid	Avoid oxidizing agents, acid.
Hazardous decomposition products	Carbon oxides

SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity	LD50: >7870 mg/kg bw. (mouse, ivll) LD50: 4700 mg/kg bw
Tumorigenic effects	Not applicable

SECTION 12- ECOLOGICAL INFORMATION

Solubility	Good
Chemical Oxygen Demand (COD)	0.01 g O ₂ /g
Biological Oxygen Demand (BOD)	0.71 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 Information	Label the package and mark the products name, lot number, weight etc.
Other information	Delivery man should bring the MSDS. Avoid the package damaged ,material let out and dangerous behavior such as falling.

SECTION 15- REGULATORY INFORMATION

Not applicable

SECTION 16- OTHER INFORMATION

Revision Date	2020/06/01
LD50	Median lethal dose