



# MATERIAL SAFETY DATA SHEET

D-ALANINE

## SECTION 1- MATERIAL/COMPANY IDENTIFICATION

Company Name	Musashino Chemical (China) Co., Ltd.
Head Office	No. 239 HuiRen Av. Xiaolan Economy Development Zone of Nanchang, Jiangxi, 330200 China Tel: +86-791-5761066 Fax: +86-791-5761060
Charge Department	Safety Management Department
Responsibility for MSDS	Safety Manager Fan Gui-Zeng
Emergency Tel.	+86-791-5761055
MSDS Revision Date	June 12, 2010

## SECTION 2- COMPSITION/INFORMATION ON INGREDIENTS

Chemical name	D(R)-2-Aminopropionic acid
Component	100%
Formula	CH <sub>3</sub> CH (NH <sub>2</sub> ) COOH
Mol.W.	89.1
CAS NO.	338-69-2

## SECTION 3- HAZARDS IDENTIFICATION

Hazards	None
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## SECTION 4- FIRST AID MEASURES

Skin contact	Flush skin and hair with clean water
Eye contact	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	Cool fire with water spray from a protected location
Extinguishing media	Water spray/fog, carbon dioxide(CO <sub>2</sub> ), foam

## SECTION 6- ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	Place spilled material in clean, dry, sealed, 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.
Packaging material	Plastic containers, Paper drum with plastic liner

## 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 white crystals or crystalline powder
Melting point	289~291°C
Solubility	Soluble in water, 164.0g/L(25°C)

## SECTION 10- STABILITY AND REACTIVITY

Stability	Stable at normal conditions
Dust Explosion limits	lower 410 g /m <sup>3</sup> (24.5°C humidity 72%)

## SECTION 11- TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 >7870 mg/kg bw. (rat, oral) LD50 4700 mg/kg bw. (mouse intravenous)
Carcinogenicity	Negative

## SECTION 12- ECOLOGICAL INFORMATION

Chemical Oxygen Demand (COD)	0.01 g O <sub>2</sub> /g
Biochemical Oxygen Demand (BOD) <sub>20</sub>	0.71 g O <sub>2</sub> /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**

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.
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## **SECTION 15- REGULATORY INFORMATION**

SAFETY USING CHEMICAL REGULATORY IN WORKING SITE (CHINA)