

M A T E R I A L S A F E T Y D A T A S H E E T

Company Name: Musashino Chemical Laboratory, Ltd.
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 Factory: Isohara Plant
 1077-2, Isohara, Isohara-Machi, Kitaibarakishi,
 Ibaraki-ken, Japan 319-1541
 Charge Department: Isohara Plant Quality Control Department
 Responsibility for MSDS: Quality Control Manager Masanobu Yamagata
 MSDS Preparation Date July 1, 2007

Trade Name	D-ALANINE
Name	D-ALANINE (D-2-AMINOPROPANOIC ACID)
Formula	CH ₃ CH(NH ₂)COOH
MITI No.	(9)-1553 (Law Concerning Examination and Regulation of Manufacture, etc., of Chemical Substances)
CAS No.	338-69-2

Hazards Identification

Hazards Class Not applicable

First Aid

Skin Contact

Immediately flush skin with plenty of water or tepid water.

Eye Contact

Immediately flush eyes with plenty of water at least 15 minutes.

Immediately remove contact lenses if wore.

If irritation persists, call a physician.

Fire Fighting Measures

Fire Extinguish

Remove a source of fire. Use water spray.

Extinguishing Media

Water spray, Foam.

Leakage

Sweep up, place in a bag and hold for waste disposal.

Wash spill site after material pickup is complete.

Treatment, disposal must be in accordance with applicable local regulations.

Handling and Storage**Handling**

Treat the material sanitarily and avoid moisture.

Storage

Keep container tightly closed.

Store in areas shielded the light, and below room temperature.

Exposure Controls**Protection**

Wear protective clothing, safety goggles, and rubber gloves.

Physical And Chemical Properties 1) 2)

Appearance White crystalline powder

Melting Point 289~291°C (decomp.)

Solubility 164.0g/L-water(25°C)

Hazards Information 3)

Not applicable

DL-alanine data is below

Instability Stable.

Reactivity Stable.

Dust Explosiveness Under limit : 410g/m³ (temperature 24.5°C, humidity 72%)

Toxicological Information (Health Hazards Information) 3) 4)

LD₅₀ > 7870 mg/kg- bw. (mouse, oral)

LD₅₀ 4700 mg/kg- bw

Carcinogenicity Not applicable

Skin Corrosive None

Ecological Information 3)

Chemical Oxygen Demand(COD Mn) 0.01 g/g

Biochemical Oxygen Demand(BOD) 0.71 g/g

Disposal Information

Treatment, storage, transportation, and disposal must be in accordance with local regulations.

Burning up the materials directly in the incinerator through atomizer may be possible.

Transport Information

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.

Treat the material sanitarily and avoid high temperature and high moisture.

Regulatory Information

Not applicable

Additional Information

Inquiry about informations

Address : Musashino Chemical Laboratory, Ltd.
Sales Division, Sales Administration Section
Yaesu-DAIBIRU Bldg., 1-1, Kyobashi
1-Chome, Chuo-ku, Tokyo 104-0031 JAPAN
Tel: 03(3274)5502 Fax:03(3275)2206

References

- 1) The MERCK INDEX 12th edition. (1996)
- 2) Unpublished data
- 3) Unpublished data(for Company use :Japanese)
- 4) Unpublished data NIHON KAYAKU Co.,Ltd(for Company use :Japanese)

While MSDS presented here is correct and reliable to the best of our knowledge and belief, because we do not control any applications and conditions of use, they are given without guarantee, and we assume no responsibility with respect thereto.

The information on products is intended for common products use, so care for extraordinary handling.

End of MSDS

Musashino Chemical Laboratory, Ltd.