

## Material Safety Data Sheet

### 1,12-Dodecanediol

Date of issue: January 1, 2003

Revised: July 3, 2006

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#### Section 1 Identification of the substance/preparation and the company

##### 1,12-Dodecanediol, 98%

Application:

Compound of medicines and agents for polymeric adhesives, detergents, inks, etc.

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#### Section 2 Composition/information on ingredients

One kind of Long straight-chain dibasic alcohol products.

Molecular Weight: 202.33 Risk Phrases: None listed.

CAS No.: 5675-51-4 Hazard Symbols: None listed.

Notes to Physician: Treat symptomatically and supportively.

#### Section 3 Hazards identification

Appearance: white solid. The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

#### Section 4 First-aid measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

#### Section 5 Fire-fighting measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.

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Flash Point: 176 deg C ( 348.80 deg F)

Autoignition Temperature: 300 deg C ( 572.00 deg F)

(To be continued from Section 5.)

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: Not published.

#### Section 6 Accidental release measure

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General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

#### Section 7 Handling and storage

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Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

#### Section 8 Exposure controls/Personal protection

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Connection: No any special demand.

Ventilation: No any special demand, just keeping dryness.

Breath Protection Measure: Gauze mask.

Eyes Protection Measure: Protection glasses.

Skins: Connecting in hand for a long time, the worker must wear general gloves.

#### Section 9 Physical and chemical properties

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Viscosity: 15.9 cPs 85.00 deg

Boiling Point: 189 deg C @ 12.00mm Hg

Freezing/Melting Point: 79.00 - 81.00 deg C

Decomposition Temperature: Not available.

Solubility: <0.1%

Specific Gravity/Density: Not available.

Molecular Formula: C<sub>12</sub>H<sub>26</sub>O<sub>2</sub>

Molecular Weight: 202.34

#### Section 10 Stability and reactivity

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Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Oxidizing agents, reducing agents, acid chlorides, acid anhydrides, chloroformates.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

#### Section 11 Toxicological information

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No information available.

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#### Section 12 Ecological Information

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No information available.

#### Section 13 - Disposal Considerations

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

#### Section 14 Transport information

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Not dangerous cargo. It is suitable for land transports and shipping. Please pay attention to keep it from sunshine, oxidizing agents, and wetness when shipping and storing.

#### Section 15 Regulatory information

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Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

#### Section 16 Additional information

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Text of all R phrases referred to in sections 2 and 3.

R-phrases: see section 15

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The information above is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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