



Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 81025

Catalog Name: Dodecylamine

Company Identification:

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CREATION DATE: January 26, 2012

SECTION 2 HAZARDS IDENTIFICATION

Physical and chemical hazard

Pyrophoric solids : Out of category

Corrosive to metals : Category 1

Human health hazard

Acute toxicity oral : Category 4

Skin corrosion/Irritation : Category 1

Serious eye damage/eye irritation : Category 1

Environmental hazard

Hazardous to the aquatic environment-acute hazard : Category 1

Hazardous to the aquatic environment-chronic hazard : Category 1

Pictograms or symbol



Signal word : Danger

Hazard statement: May be corrosive to metals

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Cautions

Safety measurements:

- Keep away from heat/sparks/open flames/hot surfaces.- no smoking.
- Keep only in original container.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating equipment.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.

First-aid measures:

- If swallowed : Rinse mouth, Do not induce vomiting.
- If eyes : Rinse cautiously with water for several minutes, Get medical treatment.
- If on skin : Rinse skin with water/shower.
- If skin irritation occurs : Get medical advice/attention.
- If on clothing : Remove/Take off immediately all contaminated clothing.
Take off contaminated clothing and wash before reuse.
- Get medical advice/attention if you feel unwell.
- If case of fire : Use water spray, dry chemical powder , carbon dioxide, dry sand, foam for extinction.

Storage

- Store in a dry place.
- Store in a closed container.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.

Disposal

- Dispose of contents and containers appropriately in accordance with related regulations.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

Substance/Mixture : Substance

Component : Dodecylamine

Synonyms : Laurylamine

Chemical formula : $\text{CH}_3(\text{CH}_2)_{11}\text{NH}_2$

Cas number : 124-22-1

US TSCA inventory : Registered A733-6754

EC number (EINECS): 204-690-6

JAPAN number (ENCS) : 2-133

Percentage : (EP) 98.0+%

SECTION 4 FIRST AID MEASURES

- If inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.
- If in eyes : Rinse cautiously with water for several minutes, Get medical treatment.
- If on skin : Rinse skin with water/shower for at least 15 minutes while removing contaminated clothing and shoes.
- If swallowed : Rinse mouth, Do not induce vomiting.

If victim is conscious and alert, give 2-4cupfuls of milk or water.
Never give anything by mouth to an unconscious person.
Get medical immediately
Get medical advice/attention if you feel unwell..

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media : Water spray, dry chemical powder, carbon dioxide, dry sand,foam
Prohibited extinguishing media : None
Particular fire fighting : Move containers form fire area if it can be done without risk, if not possible, apply water form a safe distance to cool and protect surrounding area.
Protection for firefighters : Firefighters should wear protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Information : Use proper personal protective equipment as indicated in Section 8.
Spills/Leak : Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 HANDLING AND STORAGE

Handling: : Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
Use only in a chemical fume hood.
Storage: : Store in a cool, dry place.
Store in a tightly closed container.
Store locked up.
Store in corrosive resistant container with a resistant inner liner.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.
Personal protective equipment :
Eye Protection : Goggles
Hand Protection : Protective gloves
Skin and body protection : Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection : Wear respiratory protection.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid
Appearance : White
Odor : Amine like odor
pH : 11.8
Vapor Pressure : Not available
Viscosity : Not available
Boiling Point : 247 ~ 249
Freezing/Melting Point : 28 ~ 30
Autoignition Temperature : Not available

Flash Point : 112 (Closed Cup)
Explosion Limits, lower : Not available.
Explosion Limits, upper : Not available.
Decomposition Temperature : Not available
Solubility in water : 0.078 g/ L
Specific Gravity/Density : 0.8015g/cm³ (20)
Molecular Formula : C₁₂H₂₇ N
Molecular Weight : 185.35

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability : Not available.
Conditions to Avoid : Not available.
Incompatibilities with Other Materials : Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, Nitrogen oxide
Hazardous Polymerization : Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral : Classified into category 4 based on rat oral LD₅₀ =1,020mg/kg and mouse oral LD₅₀ =1,160mg/kg. Harmful if swallowed (category 4)

Dermal : Not possible to classify because of no data.

Vapours: Not possible to classify because of no data.

Dusts and mists: Not possible to classify because of no data.

Skin corrosion/Irritation:

Classified into category 1 based on RTECS(No JR647500) data.

Causes severe skin burns and eye damage(category 1).

Serious eye damage/eye irritation:

Classified into category 1 based on RTECS(No JR647500) data.

Causes serious eye damage (category 1).

Respiratory sensitization: Not possible to classify because of no data.

Skin sensitization: Not possible to classify because of no data.

Mutagenicity: Not possible to classify because of no data.

Carcinogenic effects: Not possible to classify because of no data

Effects on the reproductive system: Not possible to classify because of no data.

Specific target organ systemic toxicity single exposure

: Not possible to classify because of no data.

Specific target organ systemic toxicity repeated exposure

: Not possible to classify because of no data.

Aspiration hazard : Not possible to classify because of no data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

Classified into category 1 based on the ICSC Card No.1364 ENVIRONMENTAL DATA.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

IATA Shipping Name: Amines, Solid, Corrosive, n.o.s. (containing 1-Dodecylamine)
Hazard Class: 8
UN Number: 3259
Packing Group:
IMO Shipping Name: Amines, Solid, Corrosive, n.o.s. (containing 1-Dodecylamine)
Hazard Class: 8
UN Number :3259
Packing Group:
RID/ADR Shipping Name: : Amines, fest, atzend, n.a.g.(Dodecylamine)
Hazard Class: 8
UN Number :3259
Packing Group:

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
: Not available
Chemical Safety Assessment : Not available
Substance Registration :
US TSCA inventory : Registerd A733-6754
EC number (EINECS): 204-690-6
JAPAN number (ENCS) : 2-133
Australia (AICS) : Registration
Canada(DSL) : Registration
Korea number (ECL) : KE-12825
China(IECSC) : Registration

SECTION 16 OTHER INFORMATION

REFERENCES:

- Registry of Toxic Effects of Chemical Substances, No JR647500
- International Chemical Safety Cards (ICSC) No. 1361
- Hazardous Substances Data Bank (HSDB)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Junsei Chemical Co.,Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.