



TOKYO CHEMICAL INDUSTRY CO., LTD.

N,N-Dimethyldodecylamine

Revision 13
number:

Revision date: 08/18/2016

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: N,N-Dimethyldodecylamine
Product code: D0002
Company: TOKYO CHEMICAL INDUSTRY CO., LTD.
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Revision number: 13

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral)

Category 4

Skin corrosion/irritation

Category 1B

Serious eye damage/eye irritation

Category 1

Reproductive toxicity

Category 2

ENVIRONMENTAL HAZARDS

Acute aquatic hazard

Category 1

Long-term aquatic hazard

Category 1

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Harmful if swallowed
Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

Precautionary statements:

[Prevention]

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Wear protective gloves/eye protection/face protection.

2. HAZARDS IDENTIFICATION

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

Collect spillage.

[Storage]

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: N,N-Dimethyldodecylamine

Percent: >96.0%(GC)(T)

CAS Number: 112-18-5

Synonyms: N,N-Dimethylaurylamine , 1-(Dimethylamino)dodecane

Chemical Formula: C₁₄H₃₁N

Notice Through Official Gazettes Reference Number

ENCS: (2)-176

ISHL: 2-(10)-54

4. FIRST-AID MEASURES

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

Skin contact:

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion:

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders:

A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media:

Water (It may scatter and spread fire.)

Specific hazards arising from the chemical:

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Precautions for firefighters:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions:

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up: Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Advice on safe handling: Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Control parameters: Not set up

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless - Very pale yellow
Odour: Amine-like
pH: No data available
Melting point/freezing point: -20°C
Boiling point/range: 149°C/2kPa
Flash point: 130°C
Flammability or explosive limits:
Lower: No data available
Upper: No data available
Vapour pressure: 2.1Pa/25°C
Relative density: 0.79
Solubility(ies):
[Water] Insoluble
[Other solvents]
Soluble: Many organic solvents
Log Pow: 5.4

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents, Acids

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin corrosion/irritation: skn-rbt 2 mg/24H SEV
Serious eye damage/irritation: eye-rbt 50 ug/24H SEV
Germ cell mutagenicity: No data available
Carcinogenicity:
 IARC = No data available
 NTP = No data available
Reproductive toxicity: No data available
RTECS Number: JR6600000

12. ECOLOGICAL INFORMATION

Ecotoxicity:
 Fish: No data available
 Crustacea: No data available
 Algae: No data available
Persistence / degradability: 100 % (by GC), 74 % (NH₃) (by BOD)
 *The substance was determined as "Ready biodegradability" under the Chemical Substances Control Law.
Bioaccumulative potential(BCF): 310
Mobility in soil
 Log Pow: 5.4
 Soil adsorption (Koc): 21700
 Henry's Law constant(PaM³/mol): 496

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: 8: Corrosive.
UN-No: 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s.
Packing group: II
Marine pollutant Y

15. JAPANESE REGULATORY INFORMATION

Fire Defense Law: Class-4 No.3 petroleums Dangerous grade 3 Not water-soluble fluid
ENCS: Priority Assessment Chemical Substance
Law for safety of vessels: Hazardous materials notification, Schedule form No.1 Corrosive substance
Pollutant Release and Transfer Register Law: on Designated Chemical Substances, Class I List(No.223)

16. OTHER INFORMATION

The reference company name of written contents
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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.