



tousimis

tousimis research corporation

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SAFETY DATA SHEET
N, N-DIMETHYLBENZYLAMINE, 98%

CATALOG #3076

1. IDENTIFICATION

SDS Name: N, N-Dimethylbenzylamine, 98%

Synonyms: Benzyldimethylamine; BDMA

COMPANY IDENTIFICATION

TOUSIMIS RESEARCH CORP.

2211 LEWIS AVENUE

ROCKVILLE,

MARYLAND 20851

UNITED STATES

Company Contact Information:

301-881-2450

trc@tousimis.com

EMERGENCY TELEPHONE NUMBER

Emergency Contact: 1-800-424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: colorless to light yellow liquid. Flash Point: 54 deg C.

Danger! Corrosive. Causes eye and skin burns. Harmful if swallowed. May cause allergic respiratory reaction. **Flammable liquid and vapor.** May cause allergic skin reaction. May be harmful if absorbed through the skin. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.

Target Organs: None.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause dermatitis. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause tremors and convulsions. May cause nausea and vomiting.

Inhalation: May cause asthmatic attacks due to allergic sensitization of the respiratory tract. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Vapors may cause dizziness or suffocation.

Chronic: Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No. Description

103-83-3 N, N-Dimethylbenzylamine, 98%

EINECS/ELINCS

203-149-1

4. FIRST AID MEASURES

Eyes: Get medical aid immediately . Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

5. FIREFIGHTING 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. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will explode in the heat of a fire. Flammable liquid and vapor. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Flash Point: 54 deg C (129.20 deg F)

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 2; Instability: 0

6. ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Take precautionary measures against static discharges. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale. Use with adequate ventilation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Keep under a nitrogen blanket. Flammables-area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name N, N-Dimethylbenzylamine

ACGIH none listed

NIOSH none listed

OSHA – Final PELs none listed

OSHA Vacated PELs: N, N-Dimethylbenzylamine: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective clothing to minimize contact with skin.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: colorless to light yellow

Odor: Odor of fish or ammonia.

pH: Not available.

Vapor Pressure: 2.4 hPa @ 20 C

Vapor Density: 4.7

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 183 – 184 deg C @ 765.00mm Hg

Freezing/Melting Point: -75 deg C

Decomposition Temperature: Not available.

Solubility: insoluble

Specific Gravity/Density: 9000g/cm³

Molecular Formula: C₉H₁₃N

Molecular Weight: 135.23

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Mechanical shock, incompatible materials, ignition sources, excess heat, temperatures above 50°C (122°F).

Incompatibilities with Other Materials: Strong acids, strong bases, strong oxidizing agents, strong reducing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxides, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 103-83-3: DP4500000

LD50/LC50:

CAS # 103-83-3:

Draize test, rabbit, eye: 5 mg Severe;

Draize test, rabbit, skin: 500 mg/4H Severe;

Oral, rat: LD50 = 265 mg/kg;

Skin, rabbit: LD50 = 1660 mg/kg

Carcinogenicity:

CAS # 103-83-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.
Other Studies:

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

No information available.

14. TRANSPORT INFORMATION

	US DOT	Canada TDG
Shipping Name:	BENZYL DIMETHYLAMINE	BENZYL DIMETHYLAMINE
Hazard Class:	8	8
UN Number:	UN2619	UN2619
Packing Group:	II	II
Additional Info:		FLASH POINT 54C

15. REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 103-83-3 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in the material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 103-83-3: immediate, fire.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

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.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

State:

CAS# 103-83-3 can be found on the following state right to know lists

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

C

Risk Phrases:

R 10 Flammable

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 16 Keep away from sources of ignition – No smoking.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 33 Take precautionary measures against static discharges.

S 36 Wear suitable protective clothing.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 9 Keep container in a well-ventilated place.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 103-83-3: 2

Canada – DSL/NDSL

CAS# 103-83-3 is listed on Canada's DSL List.

Canada – WHMIS

This product has a WHMIS classification of E, B2, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 103-83-3 is listed on the Canadian Ingredient Disclosure List.

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall tousimis[®] be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if tousimis[®] has been advised of the possibility of such damages.