

SAFETY DATA SHEET

Issuing Date 29-Jul-2013

Revision Date 28-Jun-2019

Revision Number 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **BENZYL DIMETHYL AMINE**

Other means of identification

Product Code 3602000
CAS Number 103-83-3
Formula C9H13N
Synonyms N,N-Dimethylbenzylamine; Benzenemethanamine, N,N,- Dimethyl-
UN-No UN2619

Recommended use of the chemical and restrictions on use

Recommended Use Coatings
Uses advised against Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO US, LLC
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency Telephone Number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category B
Flammable liquids	Category 3

Label elements

Emergency Overview

Signal Word

DANGER

Hazard statements

Toxic if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes severe skin burns and eye damage
FLAMMABLE LIQUID AND VAPOR

**Appearance**

Colorless Pale Yellow

Physical State

Liquid

Odor

Ammonia-like

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
 Immediately call a POISON CENTER or doctor/physician
 Specific treatment (see instructions on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present .
 Immediately call a POISON CENTER or doctor/physician
 Call a POISON CENTER or doctor/physician if you feel unwell
 Wash contaminated clothing before reuse
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Rinse mouth
 Do NOT induce vomiting
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

N,N-Dimethylbenzylamine; Benzenemethanamine, N,N,- Dimethyl-

Formula C9H13N

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Benzenemethanamine, N,N-Dimethyl-	103-83-3	100	True

4. FIRST AID MEASURES

First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Destroy contaminated shoes. Call a physician or poison control center immediately.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-Protection of the First Aider	Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Flammable properties</u>	Flammable liquid. Vapors may cause flash fire or explosion.
<u>Suitable Extinguishing Media</u>	Water spray. Carbon dioxide (CO ₂). Dry chemical. Alcohol-resistant foam. Do not use a solid water stream as it may scatter and spread fire. Water may be ineffective.
<u>Unsuitable Extinguishing Media</u>	No information available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	Not available
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes. Flash back possible over considerable distance.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Pay attention to flashback.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Clean-up Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Ground and bond containers when transferring material. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated exposure. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct exposure to sun. Product is sensitive to light and moisture. Sensitive to air.

Incompatible Materials Incompatible with strong acids and bases. Incompatible with oxidizing agents. Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Escudo de protección facial.

Skin and body protection Use suitable eye protection and gloves.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Colorless Pale Yellow
Physical State Liquid
Odor Ammonia-like
Odor Threshold Not available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	10	
Melting point / Freezing point	-75°C / -103°C	Literary Reference
Boiling point / boiling range	183 - 184 °C	
Flash Point	53 °C / 127 °F	CC (closed cup)
Evaporation Rate		
Flammability (solid, gas)		
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	Not available	
Vapor Pressure	0.87 mmHg @ 20°C	
Vapor Density	4.7	
Specific Gravity	0.9 g/cm ³ @ 20°C	
Water Solubility	8 g/L @ 20°C	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temperature °C	410 °C / 770 °F	Estimated
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point No information available
Molecular Weight 135.21
VOC content No information available
Liquid Density No information available
Bulk density No information available
Corrosion characteristics No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable.

Chemical Stability Vapors may form explosive mixture with air

Hazardous Polymerization None under normal processing Hazardous polymerization does not occur

Conditions to Avoid Heat, flames and sparks. Exposure to air or moisture over prolonged periods. Burning produces obnoxious and toxic fumes. Heating can release hazardous gases. To avoid thermal decomposition, do not overheat.

Incompatible Materials Incompatible with strong acids and bases. Incompatible with oxidizing agents. Reducing agents.

Hazardous Decomposition ProductsCarbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).**Possibility of Hazardous Reactions**

None under normal processing

11. TOXICOLOGICAL INFORMATION**Product Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzenemethanamine, N,N-Dimethyl-	= 265 mg/kg (Rat)	= 1660 mg/kg (Rabbit)	-

LC50 Inhalation: 2062 mg/m³; 4H; (rat)The following values are calculated based on chapter 3.1 of the GHS document .Information on likely routes of exposure

Eyes	Corrosive to the eyes and may cause severe damage including blindness. Causes burns. Risk of serious damage to eyes. Avoid contact with eyes.
Skin	Harmful in contact with skin. Corrosive. Causes burns. Avoid contact with skin.
Inhalation	Harmful by inhalation. Corrosive. Causes burns. Avoid breathing vapors or mists.
Ingestion	Toxic if swallowed. Do not take internally.

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms** No information available.Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Skin, rabbit: 500 mg/4H SEV ; Eye, rabbit: 5 mg SEV
Serious eye damage/irritation	No information available.
Skin Corrosion/Irritation	No information available.
Sensitization	May cause sensitization of susceptible persons.
Reproductive Effects	No information available.
Mutagenic Effects	No information available.
Developmental Effects	No information available.
STOT - single exposure	No information available.
STOT - Repeated Exposure	No information available.
Chronic Toxicity	Avoid repeated exposure. Possible risks of irreversible effects. Target Organ Effects.
Target Organ Effects	Nerves, Central nervous system (CNS).
Aspiration Hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects Avoid release to the environment

Persistence/Degradability No information available.

Bioaccumulation/Accumulation No information available.

Mobility in Soil No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-No	UN2619
Proper Shipping Name	Benzyl dimethylamine
Hazard class	8
Subsidiary Class	3
Packing Group	II
Description	UN2619, Benzyl dimethylamine, 8, (3), PG II
Emergency Response Guide Number	132

TDG

UN-No	UN2619
Proper Shipping Name	Benzyl dimethylamine
Hazard class	8
Subsidiary Class	3
Packing Group	II
Description	UN2619, BENZYL DIMETHYLAMINE, 8, (3), PG II

MEX

UN-No	UN2619
Proper Shipping Name	Benzyl dimethylamine
Hazard class	8
Subsidiary Class	3
Packing Group	II
Description	UN2619 Benzyl dimethylamine, 8, (3), II

ICAO

UN-No	UN2619
Proper Shipping Name	Benzyl dimethylamine

Hazard class	8
Subsidiary Class	3
Packing Group	II
Description	UN2619,Benzyldimethylamine,8(3),PG II

IATA

UN number	UN2619
Proper Shipping Name	Benzyldimethylamine
Transport hazard class(es)	8
Subsidiary hazard class	3
Packing Group	II
Description	UN2619,Benzyldimethylamine,8(3),PG II

IMDG

UN number	UN2619
Proper Shipping Name	Benzyldimethylamine
Transport hazard class(es)	8
Subsidiary Class	3
Packing Group	II
EmS No.	F-E, S-C
Description	UN2619, Benzyldimethylamine,8(3),PG II

RID

UN-No	UN2619
Proper Shipping Name	Benzyldimethylamine
Transport hazard class(es)	8
Packing Group	II
Classification Code	CF1
Description	UN2619 Benzyldimethylamine,8,(3),II,RID
ADR/RID-Labels	8 + 3

ADR

UN-No	UN2619
Proper Shipping Name	Benzyldimethylamine
Hazard Class	8
Packing Group	II
Classification Code	CF1
Description	UN2619 Benzyldimethylamine,8,(3),II,ADR
Labels	8 + 3

ADN

Proper Shipping Name	Benzyldimethylamine
Transport hazard class(es)	8
Packing Group	II
Classification Code	CF1
Description	UN2619 Benzyldimethylamine,8,(3),II
Hazard label(s)	8 + 3
Limited Quantity	LQ22
Ventilation	VE01
Equipment Requirements	PP, EP, EX, A

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
Canada (DSL)	Complies
EU (EINECS)	Complies
EU (ELINCS)	Does not comply
Japan (ENCS)	Complies
China (IECSC)	Complies
Korea (KECL)	Complies
Philippines (PICCS)	Complies

Australia (AICS) Complies
Mexico INV Complies
Taiwan INV Complies

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
Benzenemethanamine, N,N-Dimethyl-	Present	Present	X	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
	Present (3)-350,(3)-332	Present	Present	Present	Present
Chemical name	Mexico INV		Taiwan INV		
Benzenemethanamine, N,N-Dimethyl-103-83-3	Present		Present		

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

VOC content

This Product does not contain any VOCs

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product contains the following State Right-to-Know chemicals:

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

*Canada***WHMIS Statement**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

NFPA**Health** 3**Flammability** 2**Instability** 0**Physical Hazard** 0**Issuing Date**

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28-Jun-2019

Revision Summary

Not available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet