

## SAFETY DATA SHEET

Preparation Date: 06/16/2015

Revision date 5/3/2019

Revision Number: G2

### 1. IDENTIFICATION

**Product identifier**

**Product code:** D2399  
**Product Name:** N,N-DIMETHYLETHANOLAMINE

**Other means of identification**

**Synonyms:** 2-(Dimethylamino)ethanol; 2-Dimethylaminoethanol; beta-Dimethylaminoethanol; beta-Dimethylaminoethyl alcohol; beta-Hydroxyethyldimethylamine; Bimanol; Deanol; Dimethylaminoethanol; DMAE; Liparon; N,N-Dimethyl-2-hydroxyethylamine; N,N-Dimethyl-n-(2-hydroxyethyl)amine; N,N-Dimethylaminoethanol; N-Dimethylaminoethanol; Norcholine; Propamine A.; INCI name is Dimethyl MEA

**CAS #:** 108-01-0  
**RTECS #** KK6125000  
**Cl#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 3

**Label elements**

## Danger

### Hazard statements

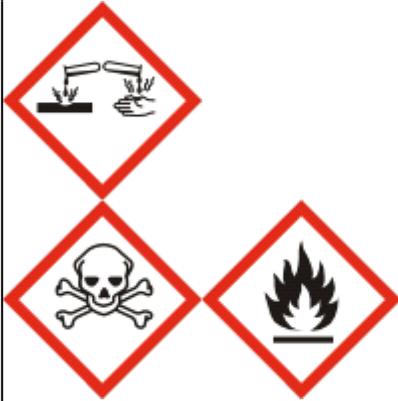
Harmful if swallowed

Harmful in contact with skin

Toxic if inhaled

Causes severe skin burns and eye damage

Flammable liquid and vapor



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

May be harmful if inhaled

Harmful to aquatic life with long lasting effects

Harmful to aquatic life

### **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 mist or vapors

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

### **Precautionary Statements - Response**

*Immediately call a POISON CENTER or physician*

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

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

Immediately call a POISON CENTER or physician.

Call a POISON CENTER or 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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

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N,N-DIMETHYLETHANOLAMINE

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### Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
N,N-Dimethylethanolamine	108-01-0	100

## 4. FIRST AID MEASURES

### First aid measures

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

**Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

### Most important symptoms and effects, both acute and delayed

**Symptoms**  
Causes severe skin burns  
Causes eye damage  
Harmful if swallowed  
Harmful in contact with skin  
Toxic by inhalation

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** Treat symptomatically.

### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water spray.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream as it may scatter

and spread fire.

### Specific hazards arising from the chemical

#### **Hazardous combustion products**

Carbon Monoxide, Carbon Dioxide. Nitrogen oxides (NOx).

#### **Specific hazards**

Flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks).

### Special Protective Actions for Firefighters

#### **Specific Methods:**

No information available

#### **Special Protective Equipment 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:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

#### **Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

#### **Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do

not smoke. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Keep away from heat and sources of ignition.

**Incompatible Materials:**

Oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
N,N-Dimethylethanolamine	108-01-0	None	None	None	None

**Canada**

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
N,N-Dimethylethanolamine	108-01-0	None	None	6 ppm STEL 22 mg/m <sup>3</sup> STEL	None

**Australia and Mexico**

Component	CAS No	Australia	Mexico
N,N-Dimethylethanolamine	108-01-0	6 ppm STEL 22 mg/m <sup>3</sup> STEL 2 ppm TWA 7.4 mg/m <sup>3</sup> TWA	None

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Goggles or Face-shield.

**Skin and body protection:** Chemical resistant apron  
Gloves  
Long sleeved clothing  
If working with large quantities:  
Chemical resistant protective suit

**Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Colorless to pale yellow.
<b>Odor:</b> Amine-like.	<b>Taste:</b> No information available.	<b>Formula:</b> C <sub>4</sub> H <sub>11</sub> NO
<b>Molecular/Formula weight (g/mole):</b> 89.14	<b>Flammability (solid, gas):</b> Flammable	<b>Flashpoint (°C/°F):</b> Closed Cup: 40°C/104°F; Open Cup: 40.556°C/105°F
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> 295°C/563°F	<b>Lower Explosion Limit (%):</b> 1.6
<b>Upper Explosion Limit (%):</b> 11.9	<b>Melting point/range(°C/°F):</b> -70°-(-59°C)/-94°-(-74.2°F)	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 133°-139°C/271.4°-282.2°F	<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> No information available
<b>Specific gravity:</b> 0.8866	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 3.03	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Miscible with alcohol Miscible with Benzene	<b>Solubility:</b> Soluble in Acetone Soluble in cold water Soluble in diethyl ether	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### Other Information

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**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**

Eyes. Inhalation. Skin.

### Acute Toxicity

### Component Information

N,N-Dimethylethanolamine

CAS No	108-01-0
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**LD50/oral/rat** = 1803 mg/kg Oral LD50 Rat (LOLI); 2000 mg/kg (RTECS); 2000-2340 mg/kg (European Chemicals Bureau IUCLID dataset)

**LD50/oral/mouse** = 3100 mg/kg

**LD50/dermal/rabbit** = 1370 µL/kg Dermal LD50 Rabbit (RTECS)  
1220 mg/kg (LOLI)

1220-3135 (European Commission IUCLID dataset)

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = 1641 ppm Inhalation LC50 Rat 4 h

**LC50/inhalation/mouse** = 3250 mg/m<sup>3</sup> Inhalation LC50 Mouse 4 h

**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =

**Value - Acute Tox** = 2000 mg/kg

**LD50/oral/mouse** =

**Value - Acute Tox Oral** = 3100 mg/kg

**LD50/dermal/rabbit**

**Value - Acute Tox** = 1220 mg/kg

**LD50/dermal/rat**

**VALUE - Acute Tox Dermal** = No information available

**LC50/inhalation/rat**

**VALUE-Vapor** = No information available

**VALUE-Gas** = 1641 ppm (4-hr)

**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**

**VALUE-Vapor** = 3250 mg/m<sup>3</sup> 4H

**VALUE - Gas** = No information available

**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:**

Causes severe irritation and burns. May be absorbed through the skin. Harmful in contact with skin.

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**Eye Contact:** Contact with liquid or vapor causes severe burns and possible irreversible eye damage including corneal injury and cataracts. Causes severe irritation and burns.

**Inhalation** Toxic by inhalation. It can irritate the respiratory tract (lungs) and cause sore throat, sneezing, coughing, wheezing, and/or shortness of breath/dyspnea. Higher exposures can cause a build-up of fluid in the lungs (pulmonary edema) with severe shortness of breath. It can affect behavior/central nervous system and cause headache, muscle tenderness, restlessness, ataxia, tremor, increased irritability, lack of sleep, insomnia, convulsions, coma. It may also affect metabolism and cause anorexia.

**Ingestion** Harmful if swallowed.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Prolonged or repeated inhalation may cause asthma-like allergy and asthma attacks with shortness of breath, difficulty breathing, wheezing, coughing, and/or chest tightness.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
N,N-Dimethylethanolamine	108-01-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*N,N-Dimethylethanolamine - 108-01-0*

**Algae/aquatic plants** EC50: =35mg/L (72h, *Desmodesmus subspicatus*)

**Fish** LC50: =81mg/L (96h, *Pimephales promelas*)

**Crustacea** EC50: =98.77mg/L (48h, *Daphnia magna*)

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
N,N-Dimethylethanolamine	108-01-0	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN2051  
**Proper Shipping Name:** 2-Dimethylaminoethanol  
**Hazard Class** 8  
**Subsidiary Class** 3  
**Packing group:** II  
**Emergency Response Guide Number** 132  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** B2, IB2, T7, TP2  
**Symbol(s):** No information available  
**Description:** UN2051, 2-Dimethylaminoethanol, 8 (3), II

#### TDG (Canada)

**UN-No:** UN2051  
**Proper Shipping Name:** 2-Dimethylaminoethanol  
**Hazard Class** 8  
**Subsidiary Risk:** (3)  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN2051, 2-Dimethylaminoethanol, 8 (3), II

#### ADR

**UN Number** UN2051  
**Proper Shipping Name:** 2-Dimethylamino-ethanol

**Transport hazard class(es)** 8  
**Packing group** II  
**Subsidiary Risk:** 3  
**Description:** UN2051, 2-Dimethylamino-ethanol, 8 (3), II

**IMDG**

**UN-No:** UN2051  
**Proper Shipping Name:** 2-Dimethylaminoethanol  
**Hazard Class:** 8  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-E  
**Description** UN2051, 2-Dimethylaminoethanol, 8 (3), II

**RID**

**UN Number** UN2051  
**Proper Shipping Name:** 2-Dimethylaminoethanol  
**Transport hazard class(es)** 8  
**Subsidiary Risk:** 3  
**Packing group** II  
**Description:** UN2051, 2-Dimethylaminoethanol, 8 (3), II

**ICAO (air)**

**UN-No:** UN2051  
**Proper Shipping Name:** 2-Dimethylaminoethanol  
**Hazard Class** 8  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**Description:** UN2051, 2-Dimethylaminoethanol, 8 (3), II

**IATA**

**UN Number** UN2051  
**Proper Shipping Name:** 2-Dimethylaminoethanol  
**Transport hazard class(es)** 8  
**Subsidiary Risk:** 3  
**Packing group** II  
**Precautionary Statements - Response** 8F  
**Special Provisions** No information available  
**Description:** UN2051, 2-Dimethylaminoethanol, 8 (3), II

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
<i>N,N-Dimethylethanolamine</i>	108-01-0	PresentACTIVE	Present KE-11494	Present	Present (2)-353,(2)-29 7	Present	Present	Present 203-542-8

**U.S. Regulations**

*N,N-Dimethylethanolamine*  
**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 3111  
**Pennsylvania RTK:** Present

**FDA - 21 CFR - Total Food Additives 173.20, 175.105, 175.300  
- List Sourced from EAFUS**

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
N,N-Dimethylethanolamine	108-01-0	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
N,N-Dimethylethanolamine	108-01-0	None	None	None	None	None

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
N,N-Dimethylethanolamine	108-01-0	Not Applicable	Not Applicable

**Canada**

**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Component  
N,N-Dimethylethanolamine  
108-01-0 ( 100 )

WHMIS 2015 Hazard Classification  
Flammable liquids - Category 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled.; Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
N,N-Dimethylethanolamine	108-01-0	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances

N,N-Dimethylethanolamine	108-01-0	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
N,N-Dimethylethanolamine	108-01-0	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
N,N-Dimethylethanolamine	108-01-0	Flammable liquids - Flam. Liq. 3: H226 Flammable liquid and vapour.; Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.603-047-00-0 Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation. (C >= 5 %)603-047-00-0

### EU - CLP (1272/2008)

#### R-phrase(s)

R10 - Flammable

R34 - Causes burns

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

#### S -phrase(s)

S25 - Avoid contact with eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
N,N-Dimethylethanolamine	108-01-0	R10 Xn; R20/21/22 C; R34	10%<=C C; R34 5%<=C<10% Xi; R36/37/38	S1/2 S25 S26 S36/37/39 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

Flammable

C - Corrosive

Xn - Harmful



## 16. OTHER INFORMATION

**Preparation Date:** 06/16/2015  
**Revision date** 5/3/2019  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**