



## SAFETY DATA SHEET

### SECTION I - IDENTIFICATION

**PRODUCT NAME:** N,N-Dimethylethylamine  
**CAS #:** 598-56-1  
**Manufacturer's Name:** CHEM-IS-TRY, INC.  
**Address:** 160-4 LIBERTY ST.  
METUCHEN, NJ 08840  
**Telephone #:** (732) 372- 7311      Secondary Telephone No: CHEMTREC  
**FAX #:** (732) 372- 7312      (800) 424-9300  
24 Hours a Day

**Relevant identified uses of the substance or mixture and uses advised against**  
Identified uses: Laboratory chemicals, manufacture of substances

### SECTION II - HAZARDS IDENTIFICATION

#### **Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section XVI.

#### **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**



#### **Pictogram**

**Signal word**      Danger

#### **Hazard statement(s)**

H225      Highly flammable liquid and vapor.  
H302 + H332      Harmful if swallowed or if inhaled.  
H314      Causes severe skin burns and eye damage.  
H318      Causes serious eye damage.

#### **Precautionary statement(s)**

P210      Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233      Keep container tightly closed.

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	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/doctor.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS – None**

For the full text of the H-Statements mentioned in this Section, see Section XVI.

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**SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Synonyms: N-Ethyldimethylamine  
 Formula: C<sub>4</sub>H<sub>11</sub>N  
 Molecular Weight: 73.14 g/mol  
 CAS-No.: 598-56-1  
 EC-No.: 209-940-8

Component	Classification	Concentration
<b>Ethyldimethylamine</b>	Flam. Liq. 2; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H225, H302, H332, H314, H318	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section XVI.

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#### **SECTION IV - FIRST AID MEASURES**

##### **Description of first aid measures**

**General advice,** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled,** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact,** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact,** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed,** never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting.

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

The most important known symptoms and effects are described in the labelling (see section II) and/or in section XI.

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

No data available

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#### **SECTION V - FIREFIGHTING MEASURES**

##### **Extinguishing media**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

##### **Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

##### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

##### **Further information**

Use water spray to cool unopened containers.

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#### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

##### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section VIII.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section XIII).

**Reference to other sections**

For disposal see section XIII.

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**SECTION VII - HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. for precautions see section II.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): III : Flammable liquids

**Specific end use(s)**

Apart from the uses mentioned in section I, no other specific uses are stipulated

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**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Components with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
Ethyldimethylamine	598-56-1	TWA	1 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
		STEL	3 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

## **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS**

### **Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

- |  |   |
|--|---|
| a) Appearance:                                   | Form: clear, liquid<br>Color: light yellow    |
| b) Odor:   | No data available                             |
| c) Odor Threshold:                               | No data available                             |
| d) pH:   | 3.7 at 70 g/l                                 |
| e) Melting point/freezing point:                 | Melting point/range: -140 °C (-220 °F) - lit. |
| f) Initial boiling point and boiling range:      | 36 - 38 °C 97 - 100 °F - lit.                 |
| g) Flash point:                                  | -28 °C (-18 °F) - closed cup                  |
| h) Evaporation rate:                             | No data available                             |
| i) Flammability (solid, gas):                    | No data available                             |
| j) Upper/lower flammability or explosive limits: | No data available                             |

k) Vapor pressure:	557.7 hPa at 20 °C (68 °F) 1,817.6 hPa at 55 °C(131 °F)
l) Vapor density:	No data available
m) Relative density:	0.675 g/cm <sup>3</sup> at 25 °C (77 °F)
n) Water solubility:	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

**Other safety information**

No data available

**SECTION X - STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Vapors may form explosive mixture with air.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents, Carbon dioxide (CO<sub>2</sub>)

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)  
Other decomposition products - No data available

In the event of fire: see section V.

**SECTION XI - TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity**

No data available Inhalation: No data available Dermal: No data available No data available

**Skin corrosion/irritation:**

No data available

**Serious eye damage/eye irritation:**

No data available

**Respiratory or skin sensitization:**

No data available

**Germ cell mutagenicity:**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

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**SECTION XII - ECOLOGICAL INFORMATION****Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

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**SECTION XIII - DISPOSAL CONSIDERATIONS****Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION XIV - TRANSPORT INFORMATION****DOT (US)**

UN number: 2733

Class: 3 (8)

Packing group: II

Proper shipping name: Amines, flammable, corrosive, n.o.s. (Ethyldimethylamine)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

**IMDG**

UN number: 2733

Class: 3 (8)

Packing group: II

EMS-No: F-E, S-C Proper shipping name: AMINES, FLAMMABLE, CORROSIVE, N.O.S. (Ethyldimethylamine)

**IATA**

UN number: 2733

Class: 3 (8)

Packing group: II

Proper shipping name: Amines, flammable, corrosive, n.o.s. (Ethyldimethylamine)



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**SECTION XV - REGULATORY INFORMATION****SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire hazard, Acute health hazards

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

Ethyldimethylamine	CAS-No. 598-56-1	Revision Date
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**New Jersey Right to Know Components**

Ethyldimethylamine	CAS-No. 598-56-1	Revision Date
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**SECTION XVI - OTHER INFORMATION**

See full text of H-Statements under sections II and III.

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