

Section 1. Product and Company Identification

**Product Name** N,N Dimethyl Acrylamide  
**CAS Number** 2680-03-7

**Parchem - fine & specialty chemicals**

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EMERGENCY RESPONSE NUMBER  
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

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

Flammable liquids (Category 4), H227

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Dermal (Category 3), H311

Serious eye damage (Category 1), H318

**GHS Label Elements**

**Pictograms:**



**Signal word:** Danger

**Hazard and precautionary statements**

**Hazard statement(s)**

H227 Combustible liquid.

H301 + H311 Toxic if swallowed or in contact with skin

H318 Causes serious eye damage.

**Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Rinse mouth.



P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.

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 or doctor/ physician.

P361 Remove/Take off immediately all contaminated clothing.

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.

### Emergency Overview

**Target Organs:** Nerves.

### HMIS Classification

**Health Hazard:** 4

**Chronic Health Hazard:** \*

**Flammability:** 2

**Physical hazards:** 0

### NFPA Rating

**Health Hazard:** 4

**Fire:** 2

**Reactivity Hazard:** 0

### Potential Health Effects

**Inhalation:** May be fatal if inhaled. Causes respiratory tract irritation.

**Skin:** Toxic if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Toxic if swallowed.

### Section 3. Composition / Information on Ingredients

|                    |   |
|--------------------|---|
| <b>Common Name</b> | N,N Dimethyl Acrylamide                   |
| <b>Synonym(s)</b>  | N,N-dimethylprop-2-enamide                |
| <b>Formula</b>     | $\text{CH}_2=\text{CHCON}(\text{CH}_3)_2$ |
| <b>CAS Number</b>  | 2680-03-7                                 |

### Section 4. 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:** 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.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Section 5. Firefighting Measures

**Flammable properties:** Flash point 70 °C (158 °F) - closed cup.

**Ignition temperature:** no data available

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

#### Section 6. Accidental Release Measures

**Personal precautions:** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

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

**Methods for cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### Section 7. Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage:** 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. Light sensitive.

#### Section 8. Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** Handle with gloves.

**Eye protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9. Physical and Chemical Properties

**Form:** liquid

**pH:** no data available

**Melting point:** no data available

**Boiling point:** 80 - 81 °C (176 - 178 °F) at 27 hPa (20 mmHg)

**Flash point:** 70 °C (158 °F) - closed cup

**Ignition temperature:** no data available

**Lower explosion limit:** no data available

**Upper explosion limit:** no data available

**Density:** 0.962 g/mL at 25 °C (77 °F)

**Water solubility:** no data available

Section 10. Stability and Reactivity

**Storage stability:** Stable under recommended storage conditions.

**Conditions to avoid:** May polymerize on exposure to light.

**Materials to avoid:** Strong oxidizing agents, Strong bases

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

Section 11. Toxicological Information

**Acute toxicity**

LD50 Oral - rat - 316 mg/kg

**Remarks:** Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):

**Eye:** Ptosis.

**Behavioral:** Somnolence (general depressed activity).

**Behavioral: Ataxia.**

LD50 Dermal: - rabbit - 519 mg/kg

**Remarks**

**Behavioral:** Somnolence (general depressed activity).

**Behavioral:** Tremor.

**Liver:** Other changes.

**Irritation and corrosion:**

Skin - rabbit - Mild skin irritation

Eyes - rabbit - Moderate eye irritation

**Sensitization:** no data available



### Chronic exposure

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.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

**Inhalation:** May be fatal if inhaled. Causes respiratory tract irritation.

**Skin: Toxic if absorbed through skin. Causes skin irritation.**

**Eyes:** Causes eye irritation.

**Ingestion:** Toxic if swallowed.

**Target Organs:** Nerves.,

**Additional Information:** RTECS: AU3230000

Section 12. Ecological Information

**Elimination information (persistence and degradability):** no data available

**Ecotoxicity effects:** no data available

**Further information on ecology:** no data available

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

### DOT (US)

**UN-Number:** 2810

**Class:** 6.1

**Packing group:** III

**Proper shipping name:** Toxic, liquids, organic, n.o.s. (N,N-Dimethylacrylamide)

**Marine pollutant:** No

**Poison Inhalation Hazard:** No



**IMDG**

**UN-Number:** 2810

**Class:** 6.1

**Packing group:** III

**EMS-No:** F-A, S-A

**Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Dimethylacrylamide)

**Marine pollutant:** No

**IATA**

**UN-Number:** 2810

**Class:** 6.1

**Packing group:** III

**Proper shipping name:** Toxic liquid, organic n.o.s. (N,N-Dimethylacrylamide)

Section 15. Regulatory Information

**OSHA Hazards:** Combustible Liquid, Target Organ Effect, Highly toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Irritant

**DSL Status:** All components of this product are on the Canadian DSL list.

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

**SARA 313 Components:** SARA 313: 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 Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** N,N-Dimethylacrylamide CAS-No. 2680-03-7  
Revision Date

**New Jersey Right To Know Components:** N,N-Dimethylacrylamide CAS-No. 2680-03-7  
Revision Date

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 6/29/2015