

## SAFETY DATA SHEET

Preparation Date: 12/23/2016

Revision Date: Not Applicable

Revision Number: Not Applicable

### 1. IDENTIFICATION

**Product identifier**

**Product code:** D1626  
**Product Name:** N,N-Diethylchloroacetamide

**Other means of identification**

**Synonyms:** N-Chloroacetyldiethylamine

**CAS #:** 2315-36-8  
**RTECS #** AB5425000  
**CI#:** Not available

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

**Recommended use:** For manufacturing or laboratory use only.  
**Uses advised against** Not for food or drug use.

**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:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to 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 3  |
| Acute toxicity - Inhalation (Gases)  | Category 2  |
| Acute toxicity - Inhalation (Vapors) | Category 2  |
| Skin corrosion/irritation            | Category 2  |
| Serious eye damage/eye irritation    | Category 2A |

**Label elements**

**Danger**

**Hazard statements**

Fatal if inhaled  
 Toxic in contact with skin  
 Harmful if swallowed  
 Causes skin irritation

**Product code:** D1626

**Product name:**  
 N,N-Diethylchloroacetamide

Causes serious eye irritation



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Do not eat, drink or smoke when using this product  
Wear respiratory protection  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**

*Immediately call a POISON CENTER or doctor/physician*  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of water  
Remove/Take off immediately all contaminated clothing  
Wash contaminated clothing before reuse  
If skin irritation occurs: Get medical advice/attention  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Rinse mouth.

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Components                 | CAS-No.   | Weight % |
|----------------------------|-----------|----------|
| N,N-Diethylchloroacetamide | 2315-36-8 | 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

**Product code:** D1626

**Product name:**  
N,N-Diethylchloroacetamide

**2 / 11**

1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**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. Toxic in contact with skin.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**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. Call a physician or Poison Control Center immediately. Toxic if swallowed.

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

**Symptoms** Fatal if inhaled. Toxic in contact with skin. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Irritating to respiratory system. May cause chemical burns to the respiratory tract.

#### **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:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray, mist, or foam.

**Unsuitable Extinguishing Media:** No information available.

### **Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon Oxides. Nitrogen Oxides. Hydrogen Chloride Gas. Halogenated Compounds.

**Specific hazards:** May be combustible at high temperatures.

### **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. Evacuate personnel to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container.

**Methods for cleaning up** Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. 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. Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. 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. Store in a segregated and approved area.

#### **Incompatible Materials:**

Strong oxidizing agents  
Strong bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

| Components                 | CAS-No.   | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|----------------------------|-----------|------|-------|-------|------------|
| N,N-Diethylchloroacetamide | 2315-36-8 | None | None  | None  | None       |

##### **Canada**

| Components                 | CAS-No.   | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|----------------------------|-----------|------------------|---------------------------|------------------|-----------------|
| N,N-Diethylchloroacetamide | 2315-36-8 | None             | None                      | None             | None            |

## Australia and Mexico

| Components                 | CAS-No.   | Australia | Mexico |
|----------------------------|-----------|-----------|--------|
| N,N-Diethylchloroacetamide | 2315-36-8 | None      | None   |

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas. 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

**Skin and body protection:** Gloves. Long sleeved clothing. Chemical resistant apron.

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |  |
|---|---|--|
| <b>Physical state:</b><br>Liquid                              | <b>Appearance:</b><br>Clear.  | <b>Color:</b><br>Colorless to pale yellow.                           |
| <b>Odor:</b><br>Odorless.                                     | <b>Taste</b><br>No information available.                                   | <b>Formula:</b><br>C6H12ClNO   |
| <b>Molecular/Formula weight:</b><br>149.62                    | <b>Flammability:</b><br>No information available                            | <b>Flashpoint (°C/°F):</b><br>110°C (230°F)                          |
| <b>Flash Point Tested according to:</b><br>Closed cup         | <b>Autoignition Temperature (°C/°F):</b><br>No information available        | <b>Lower Explosion Limit (%):</b><br>No information available        |
| <b>Upper Explosion Limit (%):</b><br>No information available | <b>Melting point/range(°C/°F):</b><br>30° - 34°C (86° - 93.2°F)             | <b>Decomposition temperature(°C/°F):</b><br>No information available |
| <b>Boiling point/range(°C/°F):</b><br>150°C (302°F)           | <b>Bulk density:</b><br>No information available                            | <b>Density (g/cm3):</b><br>1.06                                      |
| <b>Specific gravity:</b><br>No information available          | <b>pH:</b><br>No information available                                      | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available      |
| <b>Evaporation rate:</b><br>No information available          | <b>Vapor density:</b><br>No information available                           | <b>VOC content (g/L):</b><br>No information available                |
| <b>Odor threshold (ppm):</b><br>No information available      | <b>Partition coefficient (n-octanol/water):</b><br>No information available | <b>Viscosity:</b><br>No information available                        |
| <b>Miscibility:</b><br>No information available               | <b>Solubility:</b><br>No information available                              |  |

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with strong 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:** Strong oxidizing agents  
Strong bases

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride gas.

### Other Information

**Corrosivity:** No information available

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

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Skin. Eyes. Ingestion. Inhalation.

### Acute Toxicity

#### **Component Information**

N,N-Diethylchloroacetamide

CAS-No. 2315-36-8

**LD50/oral/rat** = 500 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = .315 mg/L Inhalation LC50  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

#### **Product Information**

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**Product code:** D1626

**Product name:**  
N,N-Diethylchloroacetamide

6 / 11

**LD50/dermal/rat**

VALUE -Acute Tox Dermal = No information available

**LC50/inhalation/rat**

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms****Skin Contact:** Causes skin irritation. Toxic in contact with skin.**Eye Contact:** Causes serious eye irritation.**Inhalation** Fatal if inhaled. Irritating to respiratory system. May cause chemical burns to the respiratory tract.**Ingestion** Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. May cause digestive (gastrointestinal) tract burns.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available.**Sensitization:** No information available.**Mutagenic Effects:** No information available**Carcinogenic effects:** Not considered carcinogenic.

| Components                 | CAS-No.   | IARC       | ACGIH - Carcinogens | NTP        | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|----------------------------|-----------|------------|---------------------|------------|------------------------|--|--|
| N,N-Diethylchloroacetamide | 2315-36-8 | 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.**Product code:** D1626**Product name:**  
N,N-Diethylchloroacetamide

**Target Organs:** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** 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

| Components                 | CAS-No.   | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|----------------------------|-----------|------------------------|------------------------|------------------------|------------------------|
| N,N-Diethylchloroacetamide | 2315-36-8 | None                   | None                   | None                   | None                   |

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquids, organic, n.o.s. (N,N-Diethylchloroacetamide)  
**Hazard Class:** 6.1  
**Subsidiary Class:** No information available  
**Packing group:** II  
**Emergency Response Guide Number:** 153  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** IB2, T11, TP2, TP13, TP27  
**Symbol(s):** No information available  
**Description:** UN2810, Toxic liquids, organic, n.o.s. (N,N-Diethylchloroacetamide), 6.1, II

### TDG (Canada)

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant:** No Information available  
**Description:** UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Diethylchloroacetamide), 6.1, II

### ADR

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1

**Product code:** D1626

**Product name:**  
N,N-Diethylchloroacetamide

8 / 11



**Packing Group:** II  
**Subsidiary Risk:** No information available  
**Special Provisions** 274, 614  
**Description:** UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Diethylchloroacetamide), 6.1, II

**IMO / IMDG**

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic solids, organic, n.o.s. (N,N-Dimethyl-1,4-phenylenediamine Sulfate)  
 Nitriles, liquid, toxic, n.o.s. (Bromoacetonitrile)  
 Nitriles, liquid, toxic, n.o.s. (5-Chlorovaleronitrile)  
 Nitriles, liquid, toxic, n.o.s. (Isopropylidenemalononitrile)  
 Toxic liquids, organic, n.o.s. (N,N-Diethylchloroacetamide)  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Special Provisions** 274  
**Description** UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Diethylchloroacetamide), 6.1, II

**RID**

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Special Provisions** 274, 614  
**Description:** UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Diethylchloroacetamide), 6.1, II

**ICAO**

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Diethylchloroacetamide), 6.1, II  
**Special Provisions** A3, A4, A137

**IATA**

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG Code:** 6L  
**Special Provisions** No information available  
**Description:** UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (N,N-Diethylchloroacetamide), 6.1, II

**15. REGULATORY INFORMATION**

**International Inventories**

| Components                        | CAS-No.   | U.S. TSCA | KOREA KECL  | Philippines (PICCS) | Japan ENCS  | CHINA   | Australia (AICS) | EINECS-No.           |
|-----------------------------------|-----------|-----------|-------------|---------------------|-------------|---------|------------------|----------------------|
| <i>N,N-Diethylchloroacetamide</i> | 2315-36-8 | Present   | Not present | Present             | Not present | Present | Not present      | Present<br>219-019-2 |

**U.S. Regulations**

**Product code:** D1626

**Product name:**  
 N,N-Diethylchloroacetamide

**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)

| Components                 | CAS-No.   | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|----------------------------|-----------|------------|------------------------|----------------------------|-------------------------------|
| N,N-Diethylchloroacetamide | 2315-36-8 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

**CERCLA/SARA**

| Components                        | 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 |
|-----------------------------------|-----------|---|---|--|---------------------------------|------------------------------------|
| <i>N,N-Diethylchloroacetamide</i> | 2315-36-8 | None  | None  | None   | None                            | None                               |

**U.S. TSCA**

| Components                 | CAS-No.   | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|----------------------------|-----------|---|--|
| N,N-Diethylchloroacetamide | 2315-36-8 | Not Applicable  | Not Applicable                         |

**Canada****WHMIS hazard class:**

D1A Very toxic materials

D1B Toxic materials

D2B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

| Components                 | CAS-No.   | Canada (DSL) | Canada (NDSL) |
|----------------------------|-----------|--------------|---------------|
| N,N-Diethylchloroacetamide | 2315-36-8 | Not Listed   | Present       |

| Components                 | CAS-No.   | CEPA Schedule I - Toxic Substances                          |
|----------------------------|-----------|---|
| N,N-Diethylchloroacetamide | 2315-36-8 | Not listed  |
| Components                 | CAS-No.   | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| N,N-Diethylchloroacetamide | 2315-36-8 | Not listed  |

**EU Classification****R-phrase(s)**

R26 - Very toxic by inhalation.

R21/22 - Harmful in contact with skin and if swallowed.

R36/38 - Irritating to eyes and skin.

**S -phrase(s)**

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

S28 - After contact with skin, wash immediately with plenty of water

**Product code:** D1626

**Product name:**  
N,N-Diethylchloroacetamide

10 / 11

S46 - If swallowed, seek medical advice immediately and show this container or label.

S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S36/37 - Wear suitable protective clothing and gloves.

| Components                 | CAS-No.   | Classification | Concentration Limits: | Safety Phrases |
|----------------------------|-----------|----------------|-----------------------|----------------|
| N,N-Diethylchloroacetamide | 2315-36-8 |                | No information        |                |

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

**Indication of danger:**

T+ - Very toxic.

Xi - Irritant.

T+



Xi



## 16. OTHER INFORMATION

**Preparation Date:** 12/23/2016  
**Revision Date:** Not Applicable  
**Prepared by:** Roumann Pangilinan

**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**