

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 1-Isocyanato-5,6,7,8-tetrahydronaphthalene

Product Number : 567833

Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +18003255832

Fax : +18003255052

Emergency Phone # : (314) 776-6555

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Harmful by ingestion., Harmful by skin absorption., Respiratory sensitiser, Irritant

##### Other hazards which do not result in classification

Lachrymator.

##### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

|             |  |
|-------------|--|
| H302 + H312 | Harmful if swallowed or in contact with skin.                              |
| H315        | Causes skin irritation.  |
| H319        | Causes serious eye irritation.   |
| H332        | Harmful if inhaled.  |
| H334        | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335        | May cause respiratory irritation.  |

Precautionary statement(s)

|                    |  |
|--------------------|--|
| P261               | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.   |
| P280               | Wear protective gloves/ protective clothing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P342 + P311        | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.   |

#### HMIS Classification

|                        |   |
|------------------------|---|
| Health hazard:         | 2 |
| Chronic Health Hazard: | * |
| Flammability:          | 1 |
| Physical hazards:      | 0 |

#### NFPA Rating

|                    |   |
|--------------------|---|
| Health hazard:     | 2 |
| Fire:              | 1 |
| Reactivity Hazard: | 0 |

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin** Harmful if absorbed through skin. Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** Harmful if swallowed.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>11</sub>H<sub>11</sub>NO  
Molecular Weight : 173.21 g/mol

| CAS-No.   | EC-No. | Index-No. | Concentration |
|---|--------|-----------|---------------|
| <b>1-Isocyanato-5,6,7,8-tetrahydronaphthalene</b> |        |           |               |
| 57235-17-3  | -      | -         | -             |

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### 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.

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### 5. FIRE-FIGHTING MEASURES

#### 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 fire fighting if necessary.

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

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

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Normal measures for preventive fire protection.

#### Conditions for safe 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.

Recommended storage temperature: 2 - 8 °C

Store under inert gas. Moisture sensitive.

## 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. 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.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and 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.

#### Hygiene measures

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

|        |               |
|--------|---------------|
| Form   | clear, liquid |
| Colour | colourless    |

### Safety data

|                       |  |
|-----------------------|--|
| pH                    | no data available                        |
| Melting point         | no data available                        |
| Boiling point         | 264 - 265 °C (507 - 509 °F) - lit.       |
| Flash point           | 110 °C (230 °F) - closed cup             |
| Ignition temperature  | no data available                        |
| Lower explosion limit | no data available                        |
| Upper explosion limit | no data available                        |
| Density               | 1.112 g/cm <sup>3</sup> at 25 °C (77 °F) |
| Water solubility      | no data available                        |

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

Heat.

### Materials to avoid

Strong oxidizing agents Water, Alcohols, Strong bases, Amines, acids, Strong oxidizing agents

### Hazardous decomposition products

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

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

May cause allergic respiratory reaction.

### 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 (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### Aspiration hazard

no data available

### Potential health effects

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | May be harmful if inhaled. Causes respiratory tract irritation. |
| <b>Ingestion</b>  | Harmful if swallowed.   |
| <b>Skin</b>       | Harmful if absorbed through skin. Causes skin irritation.       |
| <b>Eyes</b>       | Causes eye irritation.  |

### Signs and Symptoms of Exposure

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

### Additional Information

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## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

**Other adverse effects**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 2206 Class: 6.1 Packing group: III  
 Proper shipping name: Isocyanates, toxic, n.o.s. (1-Isocyanato-5,6,7,8-tetrahydronaphthalene)  
 Marine pollutant: No  
 Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2206 Class: 6.1 Packing group: III EMS-No: F-A, S-A  
 Proper shipping name: ISOCYANATES, TOXIC, N.O.S. (1-Isocyanato-5,6,7,8-tetrahydronaphthalene)  
 Marine pollutant: No

**IATA**

UN-Number: 2206 Class: 6.1 Packing group: III  
 Proper shipping name: Isocyanates, toxic, n.o.s. (1-Isocyanato-5,6,7,8-tetrahydronaphthalene)

**15. REGULATORY INFORMATION****OSHA Hazards**

Harmful by ingestion., Harmful by skin absorption., Respiratory sensitiser, Irritant

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

|  |            |
|--|------------|
|  | CAS-No.    |
| 1-Isocyanato-5,6,7,8-tetrahydronaphthalene | 57235-17-3 |

**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**

Acute Health Hazard

**Massachusetts Right To Know Components**

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

**Pennsylvania Right To Know Components**

|  |            |               |
|--|------------|---------------|
|  | CAS-No.    | Revision Date |
| 1-Isocyanato-5,6,7,8-tetrahydronaphthalene | 57235-17-3 |               |

**New Jersey Right To Know Components**

|  |            |               |
|--|------------|---------------|
|  | CAS-No.    | Revision Date |
| 1-Isocyanato-5,6,7,8-tetrahydronaphthalene | 57235-17-3 |               |

**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.

**16. OTHER INFORMATION**

**Further information**

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