

# SDS

## SAFETY DATA SHEET

Oakwood Products, Inc  
730 Columbia HWY N  
Estill, SC 29918  
[www.oakwoodchemical.com](http://www.oakwoodchemical.com)

**Phone Numbers:**

|                          |              |
|--------------------------|--------------|
| Product Information      | 803-739-8800 |
| Transportation Emergency | 800-451-8346 |
| Outside the USA          | 760-602-8700 |

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**MATERIAL IDENTIFICATION**

NAME: **4-Morpholin-4-ylbutanenitrile**  
CAS#: [5807-11-4]  
CAT#: 068957  
For R&D use only.

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**HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity, oral (Category 4)  
Acute toxicity, dermal (Category 4)  
Serious eye damage/eye irritation (Category 2A)  
Acute toxicity, inhalation (Category 4)

**GHS Label elements, including precautionary statements****Pictograms****Signal Word**

Warning

**Hazard Statement(s)**

|      |                               |
|------|-------------------------------|
| H302 | Harmful if swallowed          |
| H312 | Harmful in contact with skin  |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled            |

**Precautionary Statement(s)**

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280               | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P310               | Immediately call a POISON CENTER or doctor/physician.                                                                            |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>8</sub>H<sub>14</sub>N<sub>2</sub>O  
Molecular Weight : 154.21

| CAS       | Description                   | Concentration |
|-----------|-------------------------------|---------------|
| 5807-11-4 | 4-Morpholin-4-ylbutanenitrile | 97%           |

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**FIRST AID MEASURES****In case of eye contact**

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

**In case of skin contact**

Wash thoroughly with soap and plenty of water. Seek medical attention.

**If inhaled**

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

**If swallowed**

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

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**FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards/decomposition of product**

emits toxic fumes under fire conditions.

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**ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

**Environmental precautions**

Prevent further leakage if safe to do so.

**Methods and materials for containment and clean up**

Absorb spills on sand or vermiculite and place in closed container for disposal.

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**HANDLING AND STORAGE****Precautions for safe handling**

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

**Precautions for safe storage**

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

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**EXPOSURE CONTROL/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Eye/face protection**

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Hand/skin protection**

Avoid all direct contact with product.

Wear chemical-resistant gloves.

Wear protective clothing and boots.

After contact with skin, wash immediately.

**Respiratory protection**

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

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**PHYSICAL AND CHEMICAL PROPERTIES**

|                                              |                           |
|----------------------------------------------|---------------------------|
| Appearance                                   | clear light yellow liquid |
| Odour                                        | no data available         |
| Odour Threshold                              | no data available         |
| Melting point/Freezing Point                 | no data available         |
| Boiling Point                                | no data available         |
| Flash Point                                  | no data available         |
| Evaporation Rate                             | no data available         |
| Flammability (solid, gas)                    | no data available         |
| Upper/Lower Flammability or Explosive limits | no data available         |
| Vapour pressure                              | no data available         |
| Relative Density                             | no data available         |
| Solubility(ies)                              | no data available         |
| Partition coefficient: n-octanol/water       | no data available         |
| Auto-ignition temperature                    | no data available         |
| Decomposition temperature                    | no data available         |
| Viscosity                                    | no data available         |
| Refractive Index                             | no data available         |

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**STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Incompatible materials**

Strong oxidizing agents, strong acids, and strong bases.

**Hazardous decomposition products**

May evolve carbon monoxide, carbon dioxide, and nitrogen oxides.

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**TOXICOLOGICAL INFORMATION**

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

Causes serious eye irritation

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**STOT-single exposure**

no data available

**STOT-repeated exposure**

no data available

**Aspiration hazard**

no data available

**Exposure Routes**

Harmful to skin, eyes, and respiratory system.

May be toxic if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

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**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

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**DISPOSAL CONSIDERATIONS**

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

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**TRANSPORT INFORMATION****DOT**

Nitriles, liquid, toxic, n.o.s.

6.1

UN3276 III

**IMDG**

Nitriles, liquid, toxic, n.o.s.

6.1

UN3276 III

EMS-No: F-A, S-A

Marine Pollutant: No

**IATA**

Nitriles, liquid, toxic, n.o.s.

6.1

UN3276 III

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**REGULATORY INFORMATION****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: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

**New Jersey Right to Know Components**

This product may contain a chemical on the New Jersey Right to Know Components List.

4-Morpholin-4-ylbutanenitrile

**CAS**

5807-11-4

**California Prop. 65 Components**

This product may contain a chemical known to the State of California to cause cancer, birth defects, or

other reproductive harm.

Print Date: 12/08/2018

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## **OTHER INFORMATION**

Version : 1.3

Revision Date : 6/13/2013

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.