

# 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

---

**MATERIAL IDENTIFICATION**

NAME: **2-Chloroacrylonitrile**  
CAS#: [920-37-6]  
CAT#: 046287  
For R&D use only.

---

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

Flammable liquids (Category 2)  
Acute toxicity, oral (Category 2)  
Acute toxicity, dermal (Category 2)  
Skin corrosion/irritation (Category 1B)  
Sensitisation, Skin (Category 1)  
Serious eye damage/eye irritation (Category 1)  
Acute toxicity, inhalation (Category 1)  
Sensitisation, respiratory (Category 1)  
Carcinogenicity (Category 1B)  
Hazardous to the aquatic environment, acute hazard (Category 1)  
Hazardous to the aquatic environment, long-term hazard (Category 1)

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

Danger

**Hazard Statement(s)**

H225	Highly Flammable liquid and vapour
H300	Fatal if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350	May cause cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

## Precautionary Statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P240	Ground/bond container and receiving equipment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
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.

## COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	: 1-Chloro-1-cyanoethene, 1-Chloro-1-cyanoethylene, 1-Cyano-1-chloroethene, 1-Cyanovinyl chloride, 2-Chloro-2-propenenitrile, 2-Chloropropenenitrile, $\alpha$ -Chloroacrylonitrile
Formula	: C <sub>3</sub> H <sub>2</sub> ClN
Molecular Weight	: 87.51 g/mol

CAS	Description	Concentration
920-37-6	2-Chloroacrylonitrile	98%

## 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.

---

## 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.

---

## 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.

---

## 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.  
Lachrymator

### **Precautions for safe storage**

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

---

## 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.

---

**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	clear colorless liquid
Odour	no data available
Odour Threshold	no data available
Melting point/Freezing Point	no data available
Boiling Point	88-89°C
Flash Point	6°C-closed cup
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	1.096
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

---

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

Stable under recommended storage conditions.

Contains the following stabiliser:

Hydroquinone (0.1%)

**Possibility of hazardous reactions**

Vapours may form explosive mixture with air.

**Conditions to avoid**

Air.

Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials**

Strong oxidizing agents and strong reducing agents.

**Hazardous decomposition products**

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

---

**TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Skin corrosion/irritation**

Causes severe skin burns and eye damage

**Serious eye damage/eye irritation**

Causes serious eye damage

**Respiratory or skin sensitization**

May cause an allergic skin reaction

May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

May cause cancer

**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.

Toxic if swallowed.

**Signs and Symptoms of Exposure**

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting; spasm, inflammation, and edema of the bronchi; spasm, inflammation, and edema of the larynx; pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

**Target Organs**

Stomach - Irregularities

Liver - Irregularities (Hydroquinone)

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

---

**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

---

**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.

---

**TRANSPORT INFORMATION**

***DOT***

Toxic by inhalation liquid, flammable, corrosive, n.o.s.

6.1, 8,3

UN3488 I

Inhalation Zone A

***IMDG***

Toxic by inhalation liquid, flammable, corrosive, n.o.s.

6.1, 8,3

UN3488 I

Inhalation Zone A

EMS-No: F-E, S-D

Marine Pollutant: Yes

***IATA***

Toxic by inhalation liquid, flammable, corrosive, n.o.s.

6.1, 8,3

UN3488 I

Inhalation Zone A

IATA Passenger: Forbidden for transport

IATA Cargo: Forbidden for transport

---

**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.

2-Chloroacrylonitrile

**CAS**

920-37-6

**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.

---

**OTHER INFORMATION**

Version : 1.0

Revision Date : 4/6/2016

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.