

# 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-Chloro-1-phenylethanone**  
CAS#: [532-27-4]  
CAT#: 228091  
For R&D use only.

### HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity, oral (Category 2)  
Acute toxicity, dermal (Category 3)  
Skin corrosion/irritation (Category 2)  
Serious eye damage/eye irritation (Category 1)  
Acute toxicity, inhalation (Category 3)  
Sensitisation, respiratory (Category 1)  
Respiratory tract irritation (Category 3)

#### GHS Label elements, including precautionary statements

##### Pictograms



##### Signal Word

Danger

##### Hazard Statement(s)

|      |   |
|------|---|
| H300 | Fatal if swallowed  |
| H311 | Toxic in contact with skin  |
| H315 | Causes skin irritation  |
| H318 | Causes serious eye damage   |
| H331 | Toxic 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.  |
| P270               | Do not eat, drink or smoke when using this product.  |
| P280               | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P285               | In case of inadequate ventilation wear respiratory protection.   |
| P301 + P310        | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  |
| P302 + P352        | IF ON SKIN: wash with plenty of soap and water.  |
| 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. |
| P311               | Call a POISON CENTER or doctor/physician.  |
| P332 + P313        | IF SKIN irritation occurs: Get medical advice/attention.   |
| P342 + P311        | IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.  |

## COMPOSITION/INFORMATION ON INGREDIENTS

|                  |   |   |
|------------------|---|---|
| Synonyms         | : | 2-Chloroacetophenone, Phenacyl chloride, $\omega$ -Chloroacetophenone |
| Formula          | : | C8H7ClO   |
| Molecular Weight | : | 154.60 g/mol  |

| CAS      | Description               | Concentration |
|----------|---------------------------|---------------|
| 532-27-4 | 2-Chloro-1-phenylethanone | 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.

### Precautions for safe storage

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

Air sensitive

## EXPOSURE CONTROL/PERSONAL PROTECTION

### Exposure Limits:

| Component Name (CAS)                 | Reference | TWA  |                   |
|--------------------------------------|-----------|------|-------------------|
|                                      |           | ppm  | mg/m <sup>3</sup> |
| 2-Chloro-1-phenylethanone (532-27-4) | OSHA      | 0.05 | 0.3               |

### 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

yellow-tan crystals

Odour

no data available

|  |                   |
|--|-------------------|
| Odour Threshold                              | no data available |
| Melting point/Freezing Point                 | 55-56°C           |
| Boiling Point                                | 244-245°C         |
| 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                             | 1.324             |
| 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.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

Air.

### Incompatible materials

Strong bases, amines, and alcohols.

### Hazardous decomposition products

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

## TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

Rat - 50 mg/kg

#### Inhalation LC50

Human - 20 h - 159 mg/m<sup>3</sup>

#### Intraperitoneal LD50

Rat - 36 mg/kg

Remarks: Behavioral:Coma. Lungs, Thorax, or Respiration:Other changes. Skin and Appendages: Other: Hair.

#### Intravenous LD50

Intravenous - Rabbit - 30 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Respiratory stimulation.

Kidney, Ureter, Bladder:Other changes.

**Skin corrosion/irritation**

Rat - Open irritation test - 6 h

**Serious eye damage/eye irritation**

Rabbit - Severe irritation

**Respiratory or skin sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Germ cell mutagenicity**

Rat

Liver

DNA damage

Hamster

ovary

Cytogenetic analysis

**Carcinogenicity**

Rat - Inhalation

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Endocrine:Tumors. Skin and Appendages: Other: Tumors.

Carcinogenicity - Mouse - Skin

Tumorigenic:Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors. Tumorigenic:Tumors at site or application.

**Reproductive toxicity**

no data available

**STOT-single exposure**

May cause respiratory irritation

**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.

**Signs and Symptoms of Exposure**

Cough, Shortness of breath, Headache, Nausea, Vomiting

**Additional Information**

RTECS: AM6300000

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

---

## ECOLOGICAL INFORMATION

**Toxicity**

Toxicity to fish:

LC50 - Lepomis cyanellus - 1.05 mg/l - 48 h

**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**

Chloroacetophenone, solid

6.1

UN1697 II

Reportable Quantity (RQ): 100 lbs

**IMDG**

Chloroacetophenone, solid

6.1

UN1697 II

EMS-No: F-A, S-A

**IATA**

Chloroacetophenone, solid

6.1

UN1697 II

IATA Passenger: 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: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313:

**CAS**

2-Chloro-1-phenylethanone

532-27-4

**New Jersey Right to Know Components**

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

|                           |                 |
|---------------------------|-----------------|
| 2-Chloro-1-phenylethanone | CAS<br>532-27-4 |
|---------------------------|-----------------|

**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.

---

**OTHER INFORMATION**

Version : 1.0

Revision Date : 7/5/2016

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.