

# SDS

## SAFETY DATA SHEET

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

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**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.

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## COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	: 2-Chloroacetophenone, Phenacyl chloride, ω-Chloroacetophenone
Formula	: C <sub>8</sub> H <sub>7</sub> ClO
Molecular Weight	: 154.60 g/mol

CAS	Description	Concentration
532-27-4	2-Chloro-1-phenylethanone	98%

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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.  
Air sensitive

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## EXPOSURE CONTROL/PERSONAL PROTECTION

### Exposure Limits:

		TWA	
Component Name (CAS)	Reference	ppm	mg/m3
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.

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## 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

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## 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.

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## TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Oral LD50

Rat - 50 mg/kg

#### Inhalation LC50

Human - 20 h - 159 mg/m3

#### 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.

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**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

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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**

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

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

2-Chloro-1-phenylethanone

**CAS**

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**

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.

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**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.