

# SDS

## SAFETY DATA SHEET

Oakwood Products, Inc  
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 Estill, SC 29918  
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**Phone Numbers:**

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

**MATERIAL IDENTIFICATION**

NAME: **Di(adamantan-1-yl)chlorophosphine**  
 CAS#: [157282-19-4]  
 CAT#: 234444  
 For R&D use only.

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

Substances And Mixtures Which, In Contact With Water, Emit Flammable Gases (Category 2)  
 Skin corrosion/irritation (Category 1B)  
 Sensitisation, Skin (Category 1)  
 Serious eye damage/eye irritation (Category 1)  
 Carcinogenicity (Category 2)  
 Specific target organ toxicity, single exposure (Category 1)

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

Danger

**Hazard Statement(s)**

H261	In contact with water releases flammable gas
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
EUH014	Reacts violently with water

**Precautionary Statement(s)**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and

	understood.
P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P402 + P404	Store in a dry place. Store in a closed container.

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## COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>20</sub>H<sub>30</sub>ClP  
Molecular Weight : 336.89

CAS	Description	Concentration
157282-19-4	Di(adamantan-1-yl)chlorophosphine	95+%

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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. Reacts violently with water.

### Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area. Air sensitive. Never allow product to get in contact with water during storage.

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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	solid
Odour	no data available
Odour Threshold	no data available
Melting point/Freezing Point	168-173°C
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

Reacts violently with water

### Conditions to avoid

Air.

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

### Incompatible materials

Strong oxidizing agents and water.

### Hazardous decomposition products

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

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## 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

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

Possibly carcinogenic to humans. (Tetrachloromethane)

#### Reproductive toxicity

no data available

#### STOT-single exposure

no data available

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure

**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, and vomiting.

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**

Corrosive solids, water-reactive, n.o.s.

8, 4.3

UN3096 II

**IMDG**

Corrosive solid, water-reactive, n.o.s.

8, 4.3

UN3096 II

EMS-No: F-G, S-L

Marine Pollutant: No

**IATA**

Corrosive solid, water-reactive, n.o.s.

8, 4.3

UN3096 II

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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.

Di(adamantan-1-yl)chlorophosphine

**CAS**

157282-19-4

**California Prop. 65 Components**

This product does not 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 : 10/2/2017

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.