

## SAFETY DATA SHEET

Preparation Date: 04/10/2015

Revision date 06/19/2019

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** P1116  
**Product Name:** PHOSPHORUS OXYCHLORIDE, HIGH PURITY

#### Other means of identification

**Synonyms:** Phosphorus oxytrichloride  
 Phosphoryl trichloride  
 Trichlorophosphine oxide  
 Trichlorophosphorus oxide

**CAS #:** 10025-87-3  
**RTECS #** TH4897000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 1
Acute toxicity - Inhalation (Vapors)	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Corrosive to metals	Category 1

#### Label elements

## Danger

### Hazard statements

Harmful if swallowed

Fatal if inhaled

Causes severe skin burns and eye damage

Causes damage to organs through prolonged or repeated exposure

May cause respiratory irritation

May be corrosive to metals



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Not available

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Wear protective gloves/protective clothing/eye protection/face protection

Keep only in original container

### **Precautionary Statements - Response**

*Immediately call a POISON CENTER or physician*

Absorb spillage to prevent material damage

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

Call a POISON CENTER or physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Store in corrosive resistant/ .? container with a resistant inner liner

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Phosphorus Oxychloride	10025-87-3	100

### 4. FIRST AID MEASURES

#### First aid measures

<b>General Advice:</b>	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. <b>WARNING!</b> It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
<b>Ingestion:</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Severe skin and eye irritation or burns May cause irritation of respiratory tract
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician:</b>	Treat symptomatically.
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#### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** The product is not flammable.

**Unsuitable Extinguishing Media:** No information available.

#### Specific hazards arising from the chemical

**Hazardous combustion products** No information available.

**Specific hazards** Reacts with water to evolve heat and poisonous and corrosive gases. When heated to decomposition it emits

toxic fumes.

### **Special Protective Actions for Firefighters**

**Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not get water inside containers.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### **Methods and material for containment and cleaning up**

**Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from incompatible materials.

**Safe Handling Advice:**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Keep away from heat and sources of ignition. Moisture sensitive. May corrode metallic surfaces. Do not store in uncoated metallic containers.

**Incompatible Materials:**

Acids  
Alkalis  
Metals  
Moisture  
Organic materials

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Control parameters

### National occupational exposure limits

#### United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Phosphorus Oxychloride	10025-87-3	None	0.1 ppm TWA 0.6 mg/m <sup>3</sup> TWA 0.5 ppm STEL 3 mg/m <sup>3</sup> STEL	0.1 ppm TWA	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Phosphorus Oxychloride	10025-87-3	0.1 ppm TWA 0.6 mg/m <sup>3</sup> TWA	0.1 ppm TWA	None	None

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Phosphorus Oxychloride	10025-87-3	0.1 ppm TWA 0.63 mg/m <sup>3</sup> TWA	0.1 ppm TWA

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields.
- Skin and body protection:** Chemical resistant apron  
Gloves  
Long sleeved clothing
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**  
Liquid

**Appearance:**  
Fuming. Mobile.

**Color:**  
Clear. Colorless.

**Odor:**  
Pungent. Musty.

**Taste**  
No information available.

**Formula**  
POCl<sub>3</sub>

**Molecular/Formula weight (g/mole):** 153.33

**Flammability (solid, gas)**  
no data available

**Flashpoint (°C/°F):**  
No information available

<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 1.25°C/34.3°F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 105.8°C/222.4°F	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> 1.675	<b>pH</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> 3.7
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 5.3	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Reacts with water	

## 10. STABILITY AND REACTIVITY

### Reactivity

Moisture sensitive. Reacts violently with water or steam, or moisture producing hydrochloric and phosphoric acids, heat, toxic and corrosive fumes.

Reacts exothermically with alcohol.

Reacts violently with acids, alkalies, alkali metals.

Reacts with carbon disulfide, dimethylformamide.

### Chemical stability

**Stability:** Moisture Sensitive. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** The product may undergo hazardous decomposition, condensation or polymerization, it may react violently with water to emit toxic gases or it may become self-reactive under conditions of shock or increase in temperature or pressure

**Conditions to avoid:** Heat. Ignition sources. Exposure to moisture. Incompatible materials.

**Incompatible Materials:**

- Acids
- Alkalis
- Metals
- Moisture
- Organic materials

**Hazardous decomposition products:** No information available.

### Other Information

**Corrosivity:** Extremely corrosive in presence of zinc

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product code:** P1116

**Product name:** PHOSPHORUS  
OXYCHLORIDE, HIGH PURITY

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**Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

**Acute Toxicity****Component Information**

Phosphorus Oxychloride	
CAS No	10025-87-3

**LD50/oral/rat** = = 380 mg/kg Oral LD50 Rat**LD50/oral/mouse** = 327 mg/kg Oral LD50 Mouse**LD50/dermal/rabbit** = > 250 mg/kg Dermal LD50 Rabbit**LD50/dermal/rat** = No information available**LC50/inhalation/rat** = 32 ppm Inhalation LC50 Rat 4 h = 308 mg/m<sup>3</sup> Inhalation LC50 4 h**LC50/inhalation/mouse** = 404 mg/m<sup>3</sup> Inhalation LC50 Mouse 2H**Other LD50 or LC50 information** = No information available**Product Information****LD50/oral/rat** =**Value - Acute Toxicity** = 36 mg/kg**LD50/oral/mouse** =**Value - Acute Tox** = 327 mg/kg**LD50/dermal/rabbit****Value - Acute Toxicity** = No information available**LD50/dermal/rat****VALUE - Acute Tox** = No information available**LC50/inhalation/rat****VALUE-Vapor** = 32 ppm (4-hr)**VALUE-Gas** = No information available**VALUE-Dust/Mist** = No information available**LC50/Inhalation/mouse****VALUE-Vapor** = 404 mg/m<sup>3</sup> 2H**VALUE - Gas** = No information available**VALUE - Dust/Mist** = No information available**Symptoms****Skin Contact:**

Causes severe irritation and burns.

**Eye Contact:**

Causes severe eye irritation and possible burns.

**Inhalation**

Fatal if inhaled. Causes severe irritation and possible chemical burns of the respiratory tract. Exposure to vapor also causes irritation of the eyes and lacrimation. Other symptoms of exposure include dizziness, headache, weakness, anorexia, nausea, vomiting, chest pain, pain in the throat, wheezing, coughing, difficulty breathing and shortness of breath (dyspnea) respiratory depression, bronchitis, bronchopneumonia, pulmonary edema. May also cause corneal damage, metabolic acidosis, and affect the kidneys (kidney damage, nephritis), and the liver, behavior/central nervous system(somnolence).

**Ingestion** Harmful if swallowed. May cause anorexia. May affect liver. May cause ulceration or bleeding from the stomach.

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Chronic phosphorus poisoning may cause osteomyelitis of the jaw bones ("phossy jaw"), most frequently of the mandible and less often of the maxilla which commonly begins as a dental disturbance. May also cause osteoporosis. Chronic ingestion may also affect the liver and kidneys.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Phosphorus Oxychloride	10025-87-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** Central nervous system. Eyes. Kidneys. Lungs. Respiratory system. Skin.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.



### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

##### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

##### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Phosphorus Oxychloride	10025-87-3	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN1810  
**Proper Shipping Name:** Phosphorus oxychloride  
**Hazard Class** 6.1  
**Subsidiary Class** 8  
**Packing group:** I  
**Emergency Response Guide Number** 137  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** 2, T20, TP13, TP2, TP38, TP45, B9, N34, B14, B32, B77  
**Symbol(s):** [DOT]: (+) - Fixes the proper shipping name, hazard class and packing group for that entry without regard to whether the material meets the definition of that class, packing group or any other hazard class. [DOT]: (R4) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 1000 pounds (454 Kilograms).  
**Description:** UN1810, Phosphorus oxychloride, 6.1 (8), I

#### TDG (Canada)

**UN-No:** UN1810  
**Proper Shipping Name:** Phosphorus oxychloride  
**Hazard Class** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN1810, Phosphorus oxychloride, 8, II

#### ADR

**UN Number** UN1810  
**Proper Shipping Name:** Phosphorus oxychloride  
**Transport hazard class(es)** 6.1  
**Packing group** I  
**Subsidiary Risk:** 8  
**Special Provisions** 354  
**Description:** UN1810, Phosphorus oxychloride, 6.1 (8), I

#### IMDG

**UN-No:** UN1810  
**Proper Shipping Name:** Phosphorus oxychloride  
**Hazard Class:** 6.1

**Subsidiary Risk:** 8  
**Packing Group:** I  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Special Provisions** 354  
**Description** UN1810, Phosphorus oxychloride, 6.1 (8), I

**RID**

**UN Number** UN1810  
**Proper Shipping Name:** Phosphorus oxychloride  
**Transport hazard class(es)** 6.1  
**Subsidiary Risk:** 8  
**Packing group** I  
**Special Provisions** 354  
**Description:** UN1810, Phosphorus oxychloride, 6.1 (8), I

**ICAO (air)**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class** No information available  
**Subsidiary Risk:** 8  
**Packing Group:** No information available  
**Description:** Forbidden

**IATA**

**UN Number** Not Regulated  
**Proper Shipping Name:** No information available  
**Transport hazard class(es)** No information available  
**Subsidiary Risk:** 8  
**Packing group** No information available  
**Precautionary Statements - Response** No information available  
**Special Provisions** No information available  
**Description:** Forbidden

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Phosphorus Oxychloride	10025-87-3	PresentACTIV E	Present KE-28728	Present	Present (1)-244	Present	Present	Present 233-046-7

**U.S. Regulations**

*Phosphorus Oxychloride*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1523  
**New Jersey (EHS) List:** 1523 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**New Jersey TCPA - EHS:** 800lbTQ  
**Pennsylvania RTK:** Environmental hazard  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
 1000 lb RQ  
 100 lb RQ  
**Louisana Reportable Quantity List for Pollutants:** Listed

California Directors List of Hazardous Substances: Present

FDA - Direct Food Additives 21 CFR 172.892 (<=0.1%); 21 CFR 172.892 (<=0.1% followed by either Acetic anhydride <=8% or Vinyl acetate <=7.5%)

FDA - 21 CFR - Total Food Additives 172.892

- List Sourced from EAFUS

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Phosphorus Oxychloride	10025-87-3	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Phosphorus Oxychloride	10025-87-3	1000 lb final RQ 454 kg final RQ	1000 lb EPCRA RQ	None	None	None

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Phosphorus Oxychloride	10025-87-3	Not Applicable	Not Applicable

**Canada**

**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Component  
Phosphorus Oxychloride  
10025-87-3 ( 100 )

WHMIS 2015 Hazard Classification  
Corrosive to Metals - Category 1: H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.; Acute toxicity - Inhalation - Category 1: H330 Fatal if inhaled.; Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)

Phosphorus Oxychloride	10025-87-3	Present	Not Listed
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Component	CAS No	CEPA Schedule I - Toxic Substances
Phosphorus Oxychloride	10025-87-3	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Phosphorus Oxychloride	10025-87-3	Not listed

### EU Classification

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Phosphorus Oxychloride	10025-87-3	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 2: H330 Fatal if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage.; Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure. (No information to prove exclusion of certain routes of exposure); Supplemental Hazards - EUH014 Reacts violently with water. (H372: No information to prove exclusion of certain routes of exposure); Supplemental Hazards - EUH029 Contact with water liberates toxic gas. (H372: No information to prove exclusion of certain routes of exposure)015-009-00-5

#### EU - CLP (1272/2008)

#### **R-phrase(s)**

R14 - Reacts violently with water  
R22 - Harmful if swallowed  
R26 - Very toxic by inhalation  
R29 - Contact with water liberates toxic gas  
R35 - Causes severe burns  
R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation

#### **S-phrase(s)**

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S 7/8 - Keep container tightly closed and dry.  
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

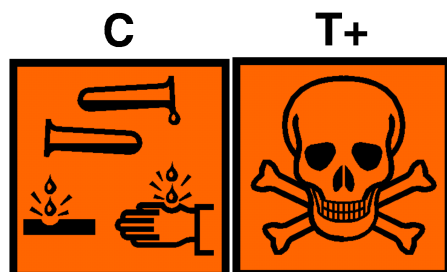
Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Phosphorus Oxychloride	10025-87-3	R14 Xn; R22 T+; R26 R29 C; R35 T; R48/23	No information	S(1/2) S7/8 S26 S36/37/39 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

C - Corrosive

T+ - Very toxic



**16. OTHER INFORMATION**

**Preparation Date:** 04/10/2015  
**Revision date** 06/19/2019  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**