SECTION 1  PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Phosphorus (V) Oxide
PRODUCT NUMBER: 2857
CAS NUMBER: 1314-56-3
SYNONYMS: Phosphorus pentoxide, Diphosphorus pentoxide, Phosphorus anhydride

MANUFACTURER:
Prochem, Inc.
826 Roosevelt Road
Rockford, IL  61109
PHONE: 815-398-1788
FAX: 815-398-1810
TOLL FREE: 800-795-8788

SECTION 2  HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram

Signal Word  Danger

Hazard Statements

H314  Causes severe skin burns and eye damage.
H330  Fatal if inhaled.

Precautionary Phrases

P260  Do not breathe dust/fume/gas/mist/vapors/spray.
P303+P361+P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

HMIS CLASSIFICATION:
Health: 4  Fire: 0  Reactivity Hazard: 2

NFPA RATING:
Health: 4  Flammability: 0  Reactivity Hazard: 2

EYE CONTACT: Causes severe burns. Possibly permanent damage.
SKIN CONTACT: Causes burns.
INHALATION: Inhalation of dust is extremely destructive to tissue of mucous membranes and upper respiratory tract. Can lead to spasms, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.
INGESTION: May be fatal if swallowed. Extremely destructive to tissue.
SECTION 3  COMPOSITION / INFORMATION ON INGREDIENTS

Formula: \( \text{P}_2\text{O}_5 \)

Molecular Weight: 141.94

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<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<td>Phosphorus (V) Oxide</td>
<td>1314-56-3</td>
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SECTION 4  FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5  FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Phosphorus oxides

SECTION 6  ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Use neutralizing agent. Sweep up and place in suitable container for proper disposal.

SECTION 7  HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Handle under dry protective gas.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store under dry inert gas. Store away from oxidizing agents, strong bases, water, and moisture.

SECTION 8  EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White powder
ODOR: None
MOLECULAR WEIGHT: 141.94
BOILING POINT: 360° C (subl.)
MELTING POINT: 340° C
SPECIFIC GRAVITY: 2.39 gm/ml
VAPOR DENSITY: No data available
SOLUBILITY: Violent reaction with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Exposure to moisture
INCOMPATIBILITY: Water, sodium oxides, potassium, ammonia, peroxides, magnesium, alcohols, metals, and oxidizing agents.
DECOMPOSITION PRODUCTS: Phosphorus oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is considered to be a human carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
CHRONIC TOXICITY: Not available
RTECS: TH3945000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN1807
Phosphorus Pentoxide
CLASS 8
PG II

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

SARA 302/304: Not Listed
SARA 311/312: Acute Health Hazard
SARA (TITLE 313): Not listed
CALIFORNIA PROP. 65: Not Listed
SECTION 15  REGULATORY INFORMATION (Cont.)

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Phosphorus pentoxide
NEW JERSEY RIGHT TO KNOW COMPONENTS: Phosphorus pentoxide
PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Phosphorus pentoxide

SECTION 16  OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
DATE PREPARED: 03/15
SDS DEPT.