



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Phosphorus (V) Oxybromide**

PRODUCT NUMBER: 2860

CAS NUMBER: 7789-59-5

SYNONYMS: Phosphorus tribromide oxide

MANUFACTURER:

Prochem, Inc.
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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/face protection/eye 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/spray.
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.

HMIS CLASSIFICATION:

Health: 3 Fire: 0 Reactivity Hazard: 2

NFPA RATING:

Health: 3 Flammability: 0 Reactivity Hazard: 2

EYE CONTACT: Severe corrosive to the eyes. Exposure can lead to permanent eye damage.

SKIN CONTACT: Severe corrosive to the skin. May be absorbed through skin. Contact can lead to redness, pain, blistering, ulceration, and scar formation.

INHALATION: Severe irritant to the mucous membrane and lungs, including pulmonary edema may occur.

INGESTION: Ingestion may cause, pain, vomiting, burns of mouth and throat, and ulcerations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: POBr₃

Molecular Weight: 286.69

CHEMICAL NAME	CAS#	%
Phosphorus (V) Oxybromide	7789-59-5	100

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: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Product does not present an explosion hazard.

EXTINGUISHING MEDIUM: Carbon dioxide, sand, or extinguishing powder. Do not use water.

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 oxide and hydrogen bromide

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. Do not mix spills with water.

SECTION 7 HANDLING AND STORAGE

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

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from oxidizing agents, water, and moisture. Store under dry inert gas. Recommended storage temperature 2-8° C. Reacts violently with water.

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 to yellow solid

ODOR: None

MOLECULAR WEIGHT: 286.69

BOILING POINT: 193° C

MELTING POINT: 56° C

SPECIFIC GRAVITY: 2.82 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Reacts violently with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Exposure to moisture and water

INCOMPATIBILITY: Strong bases, organic materials, and water.

DECOMPOSITION PRODUCTS: Phosphorus oxide and hydrogen bromide

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a human carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Not available

RTECS: No data

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

UN1939

Phosphorus oxybromide

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: No components are subject to the Massachusetts Right to Know Act.

NEW JERSEY RIGHT TO KNOW COMPONENTS: Phosphorus (V) Oxybromide

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Phosphorus (V) Oxybromide

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.