



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Rhodium, Sponge**

PRODUCT NUMBER: 3002

CAS NUMBER: 7440-16-6

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H228	Flammable solid
------	-----------------

### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting equipment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

### HMIS CLASSIFICATION:

Health: 0      Fire: 3      Reactivity Hazard: 3

### NFPA RATING:

Health: 0      Flammability: 3      Reactivity Hazard: 3

**EYE CONTACT:** May cause slight to mild irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** May be irritating to the respiratory tract.

**INGESTION:** May be harmful if swallowed

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Rh

Molecular Weight: 102.91

CHEMICAL NAME	CAS#	%
Rhodium	7440-16-6	100

## SECTION 4 FIRST AID MEASURES

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

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

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use special powder for metal fires. Do NOT use water. Use dry sand, dry chemical, or alcohol-resistant foam for extinction.

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

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

## SECTION 6 ACCIDENTAL RELEASE MEASURES

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

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Spills can be mixed with vermiculite or sodium carbonate, swept up, and placed in proper container for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Keep away from source of ignition – no smoking. Take measures to prevent the build up of electrostatic charge.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Do not store together with acids. Store away from oxidizing agents.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Component	Exposure Limits	Basis	Entity
Rhodium	1 mg/m <sup>3</sup>	TLV	ACGIH
	0.1 mg/m <sup>3</sup>	PEL	OSHA
	0.1 mg/m <sup>3</sup>	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

**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

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Light gray powder

**ODOR:** None

**MOLECULAR WEIGHT:** 102.91

**BOILING POINT:** 3727° C

**MELTING POINT:** 1966° C

**SPECIFIC GRAVITY:** 12.41 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Heat, flames, and sparks. Extremes of temperature and direct sunlight

**INCOMPATIBILITY:** Strong oxidizing agents, halogens, acids, chlorine trifluoride, oxygen difluoride, and alcohols.

**DECOMPOSITION PRODUCTS:** Rhodium oxides.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available

**CARCINOGENIC EFFECTS:** According to IARC, NTP, and OSHA, No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen. According to ACGIH, this product is not classifiable as a human carcinogen: inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** VI9069000

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

## SECTION 12 ECOLOGICAL DATA

No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

**DOT:** UN3089

Metal powders, flammable, n.o.s.

(Rhodium)

CLASS 4.1

PG III

**IATA:** UN3089

Metal powder, flammable, n.o.s.

(Rhodium)

CLASS 4.1

PG III

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**DSCL (EEC):** Listed on the DSCL inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Fire Hazard

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**SARA (TITLE 313):** Not Listed

**CALIFORNIA PROP. 65:** Not Listed

**WHMIS CANADA:** Class B-4: Flammable solid.

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Rhodium

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Rhodium

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Rhodium

## **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: 08/14