



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2404	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	RAM ROD	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Sulfuric Acid Drain Opener	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Skin corrosion: Category 1A Serious eye damage: Category 1	SIGNAL WORD: DANGER	SYMBOL:		
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HAZARD STATEMENTS:

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H350: May cause cancer.

PRECAUTIONARY STATEMENTS:

P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe vapors or mist.
P264: Wash face, hands, and any exposed skin thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P303+P353+P361: IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing.
P301+P311: IF SWALLOWED: Call a POISON CENTER or doctor..

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Sulfuric Acid, Oil of vitriol	7664-93-9	>50%

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Immediately flush eyes with cool running water for a minimum of 15 minutes. Check for and remove contact lenses. Hold eyelids away from eye while continuing to flush with water. Get medical help immediately.

SKIN: Immediately flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing and shoes. If burning or irritation persists, then continue to flush with water and get medical help. Do not apply any ointments to affected skin unless directed by a physician. Discard heavily contaminated clothing and shoes. Otherwise launder clothes in a separate wash before reuse.

INHALATION:

Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. If breathing is difficult, give oxygen and get medical help immediately.

INGESTION:

DO NOT INDUCE VOMITING. If victim is alert and not convulsing, rinse mouth with water and give 1/2 to 1 glass of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitous. IMMEDIATELY contact physician or poison control center.

5. Fire-Fighting Measures

FLAMMABILITY OF PRODUCT:

Product is not flammable.

FIRE HAZARDS:

If product is released it can react with metals which may liberate hydrogen gas. Hydrogen gas can form an explosive/flammable mixture if concentrated with air. Product reacts violently with water with the evolution of heat.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Thermal decomposition products include sulfur oxides, nitrogen oxides.

SPECIFIC FIRE-FIGHTING METHODS:

Do not release runoff from fire to sewers or waterways.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear protective clothing and gear with self-contained breathing apparatus.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Do not touch or walk through spilled material. Ventilate area. Wear appropriate respirator when ventilation is inadequate, and put on appropriate protective equipment before handling material, (see Section 8 for appropriate respirator and PPE).

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Absorb spill with an inert material and place into plastic waste container. Wash floors and other contaminated surfaces with a neutralizing solution (soda ash or lime). Rinse surfaces with fresh water. Ensure adequate decontamination of equipment following clean up. Dispose of spill material and clean up solutions according to all federal, state, and local regulations.

7. Handling and Storage

HANDLING:

Do not ingest. Do not get into eyes or on skin or clothing. Do not breathe fumes or vapor spray. Use only with adequate ventilation. Do not use or mix with other chemicals. Do not reuse the empty product container. Wash thoroughly after handling this product. Observe all of the label precautions.

STORAGE:

Keep containers tightly closed. Keep containers or cases of product in a well-ventilated warehouse at storage temperatures between 40°F (4°C) and 100°F (38°C). Keep all food and drink away. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

CHEMICAL NAME	CAS#	LIST	TYPE	VALUE
Sulfuric Acid, Oil of vitriol	7664-93-9	OSHA ACGIH	PEL (US) TLV (US)	TWA: 1 mg/m ³ -8 hrs (mist) TWA: 0.2 mg/m ³ -8 hrs

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Chemical splash goggles or face shield is recommended when handling this product. Eye protection is advised even when handling a closed (capped) container.

SKIN PROTECTION: Chemical resistant gloves, apron and sleeves are recommended when handling this product. Gloves, aprons, etc. are recommended even while handling closed containers.

RESPIRATORY PROTECTION: Provide exhaust ventilation to keep airborne concentrations of the vapor below the threshold limit value. If ventilation is inadequate, then operator should wear a NIOSH/MSHA approved air-purifying respirator equipped with an acid gas/fume mist cartridge for vapor concentrations up to 10 mg/m³.

HYGIENE MEASURES: Ensure that eyewash stations and safety showers are close to the work location. Wash hands, forearms, and face thoroughly after handling this product, and before eating, smoking, or using the lavatory.

9. Physical & Chemical Properties

Physical State:	Liquid (Oily Liquid)	Vapor Pressure:	0.1 kPa (1 mm Hg)@20°C
Color:	Brown	Molecular Weight:	98 g/mol
Odor:	Odorless	pH:	<1
Specific Gravity:	1.84 (Water = 1.0)	Solubility:	Miscible in water

10. Stability & Reactivity Information

CHEMICAL STABILITY:

Product is stable.

INCOMPATIBLE MATERIALS:

Product is reactive or incompatible with reducing agents/chemicals, organics, metals and alkalies. Product reacts vigorously with water. Never pour water into the concentrated acid.

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions of storage and use.

DECOMPOSITION PRODUCTS:

Sulfur oxide vapors (SO₂, SO₃) may be released when sulfuric acid decomposes.

11. Toxicological Information

ACUTE TOXICITY

CHEMICAL NAME	RESULT	SPECIES	DOSE
Sulfuric acid	LD50 Oral	Rat	2140 mg/kg

ACUTE HEALTH EFFECTS:

EYE CONTACT: Corrosive to the eyes. Short-term eye exposure may cause severe and permanent injury or blindness.

SKIN CONTACT: Corrosive to the skin. Skin contact may cause skin inflammation, blistering, chemical burns.

INGESTION: Very hazardous if ingested. May be fatal if swallowed. May cause burns to mouth, throat and stomach.

INHALATION: Breathing vapors of mist from product may produce severe irritation of the respiratory tract, characterized by coughing, choking, or shortness of breath. Overexposure to mists or vapors may produce lung damage, unconsciousness, or death.

CHRONIC / LONG TERM EFFECTS: Substance may be toxic to upper respiratory tract, skin, eyes, and teeth. Repeated or prolonged exposure can produce chronic eye irritation, skin irritation, and respiratory irritation (leading to frequent bronchial infections). Repeated exposure may cause a general deterioration of health by an accumulation in one or more organs.

CARCINOGENIC INFORMATION:

Inhalation of spray mists can cause cancer. Classified 1 (Proven for humans) by IARC-Sulfuric Acid Mists.

12. Ecological Information

ECOTOXICITY: Information not available.

BIODEGRADABLE/OECD: Information not available.

13. Disposal Consideration

The generation of waste should be avoided or minimized whenever possible. Dispose of non-recyclable waste material via a licensed waste disposal contractor. Disposal of this product or any resulting waste stream should comply with all federal, state and local environmental control regulations.

14. Transportation Information

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG	ADDITIONAL INFORMATION
DOT Classification	UN1830	Sulfuric Acid	8	II	<p>Reportable Quantity 1000 LBS (454 Kg)</p> <p>Limited Quantity Yes</p> <p>Packaging Instructions Passenger Aircraft Quantity Limitation: Forbidden Cargo Aircraft Quantity Limitation: 30L</p>

15. Regulatory Information

US FEDERAL REGULATIONS

US INVENTORY (TSCA): All components are listed or exempted.
SARA 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES: Sulfuric Acid.
SARA 302/304 EMERGENCY PLANNING AND NOTIFICATION: Sulfuric Acid.
SARA 313 FORM R REPORTING REQUIREMENTS: Sulfuric Acid.
CLEAN WATER ACT (CWA) 311: Sulfuric Acid RQ-1,000 lbs.
CLEAN AIR ACT (CAA)112 REGULATED TOXIC SUBSTANCES: No products were found.

STATE REGULATIONS

CALIFORNIA PROP. 65: This product contains the following ingredients for which the Sate of Claifornia has found to cause cancer, birth defects, or other reproducitve harm, which would require a warning under the statute: Strong inorganic mists containing sufuric acid.

16. Other Information

N/A = Not Applicable; N/D = Not Determined

NFPA	Health Hazards: 0	Flammability: 3	Instability: 1	Physical & Chemical Properties:
HMIS	Health Hazards: 0	Flammability: 3	Physical hazards: 2	Personal protection: D

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.