SAFETY DATA SHEET

ACP- 447 – PRO CLEAN FOR EXTREME GROUT CLEANING **Date: 08/14/2024**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Pro Clean for Extreme Grout Cleaning

Other Means of Identification

Product Code ACP-447

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Tile & Grout Cleaner

Details of the Supplier of the Safety Data Sheet

Manufacturer Address Arrow Chemical Products, Inc.
5933 W. KL Ave
Kalamazoo, MI 49009

Emergency Telephone Number

Company Phone Number 313-237-0277

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 4
Skin Corrosion/ Irritation	Category 1 Sub-category C
Serious Eye Damage/Eye Irritation	Category 1

Signal Word **DANGER**

Hazard Statements

Causes severe skin burns and eye damage
Harmful if swallowed

Appearance: Yellow Liquid **Physical State:** Liquid **Odor:** Acid Odor

Precautionary Statements - Prevention
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection.
Do not eat, drink or smoke when using this product
Do not breathe mist/vapors/spray
Use only in well ventilated areas
Do not taste or swallow

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
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 doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse. If irritation persists, seek medical attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Keep container closed while not in use. KEEP OUT OF REACH OF CHILDREN. Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in a tightly secure area inaccessible to children.

Precautionary Statements - Disposal
Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling. Waste must be disposed of in accordance with federal, state, and local environment control regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Phosphoric Acid	7664-38-2	30 - 50

4. FIRST AID MEASURES

First Aid Measures

Inhalation — Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Eye Contact — Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Ingestion — Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Skin Contact — Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms — May cause eye burns and permanent eye damage. Prolonged contact may cause severe skin irritation or mild burns. May cause irritation to the mucous membranes and upper respiratory tract.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use any means suitable for primary source of fire. Water spray may be used to keep fire exposed containers cool. If water is used, use in abundance to control heat and acid build up.

Unsuitable Extinguishing Media No unsuitable extinguishing media known.

Specific Hazards Arising from the Chemical Not considered a fire hazard. Contact with most metals causes formation of flammable and explosive Hydrogen gas.

Protective Equipment and Precautions for Firefighters Fire fighters should use OSHA approved self-contained breathing apparatus and protective clothing when any material is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Wear protective clothing as required. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for Cleaning Up Neutralize with alkaline material (soda ash, lime) then soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Do not flush into sewers.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Keep container closed while not in use. Avoid contact with eyes. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions KEEP OUT OF REACH OF CHILDREN. Store in a dry area, no lower than 50°F or higher than 120°F. Store in a tightly secure area inaccessible to children.

Incompatible Materials Oxidizing agents, alkalis, metal, and heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	TWA: 1 mg/m^3 STEL: 3 mg/m^3	TWA: 1 mg/m^3 STEL: 3 mg/m^3	TWA: 1 mg/m^3 STEL: 3 mg/m^3

Appropriate Engineering Controls

Engineering Controls	Provide mechanical local exhaust ventilation to prevent release of mist into the work area. If release is expected, use respiratory protection. Provide eye wash station and safety shower facilities.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Chemical anti-splash goggles.
Skin and Body Protection	Rubber gloves or other impervious gloves.
Respiratory Protection	No special equipment needed under normal processing. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	
Appearance	Yellow Liquid	**Odor** Liquid Odor
Color	Yellow	**Odor Threshold** N/A

Property	**Values**	**Remarks • Method**
pH	<1	
Melting Point/Freezing Point	N/A	
Boiling Point/Boiling Range	N/A	
Flash Point	N/A	
Evaporation Rate	1	Butyl Acetate=1
Flammability (Solid, Gas)	N/A	
Upper Flammability Limits	N/A	
Lower Flammability Limit	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Specific Gravity	1.30	
Water Solubility	Completely soluble.	
Solubility in Other Solvents	N/A	
Partition Coefficient	N/A	
Auto-ignition Temperature	N/A	
Decomposition Temperature	N/A	
Kinematic Viscosity	N/A	
Dynamic Viscosity	N/A	
Explosive Properties	Not an explosive	
Oxidizing Properties	N/A	

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid
Contact with alkaline materials, and reactive metals.

Incompatible Materials
Strong oxidizing agents, alkali, metals, bleach.

Hazardous Decomposition Products
Heating phosphoric acid to decomposition yields toxic phosphorous pentoxide fumes.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation Harmful if inhaled.

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Ingestion Can cause irritation and corrosive burns to mouth, throat, and stomach.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric Acid 7664-38-2	3500 mg/kg (rat)	>1260 mg/kg (rat)	Not Determined

Information on Physical, Chemical and Toxicological Effects

Symptoms May cause eye burns and permanent eye damage. Prolonged contact may even cause severe skin irritation or mild burn. May cause irritation to the mucous membranes and upper respiratory tract.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity
Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and Degradability
No specific biodegradation test data was located. It was reported in the scientific literature that while acidity of this material may be reduced readily in natural waters, the phosphate may persist indefinitely.

Bioaccumulation
Not determined.

Mobility
When spilled on to soil, phosphoric acid will infiltrate downward, the rate being greater with lower concentration because of reduced viscosity. During transport through the soil the acid will neutralize to some degree however, significant amounts of acid will remain for transport down toward the groundwater table. Upon reaching the groundwater table that acid will continue to move in the direction of groundwater flow.

Other Adverse Effects
US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling. Waste must be disposed of in accordance with federal, state and local environment control regulations.
Contaminated Packaging	Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (Phosphoric acid)
Hazard Class	8
Packing Group	III

IATA

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (Phosphoric acid)
Hazard Class	8
Packing Group	III

IMDG

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (Phosphoric acid)
Hazard Class	8
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
NDSL	Listed

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

SARA 313
Not listed under this statute.

CERCLA Reportable Quantity The following components are listed:

Chemical Name	CAS Number	CERCLA RQ
Phosphoric Acid	7664-38-2	5000 lbs.

Release of 5000 lbs. or more of this product into the environment in a 24-hour period requires notification to the U.S. National Response Center (800-424-8802 or 202-426-2675). Since local, state, and federal laws vary; consult appropriate regulatory officials for information relating to spill reporting.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid 7664-38-2	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Reactivity**	**Special Hazards**
	2	0	0	Not Determined
HMIS	**Health Hazards**	**Flammability**	**Reactivity**	**Personal Protection**
	2	0	0	B

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet