



Material Safety Data Sheet

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1. COMPANY AND PRODUCT IDENTIFICATION

Product code: 004868-03 01
Product name: QUAKERCLEAN™ 403 CT

Supplier:
Quaker Chemical Corporation
Quaker Park One
901 Hector Street
Conshohocken, PA 19428
610-832-4000
E-mail: she@quakerchem.com

Emergency telephone number:
* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**QUAKER CHEMICAL CORPORATION: (800) 523-7010(
Within US only)
Outside of US call (703) 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Listed Components	Weight %	CAS No.	OSHA TWA (final):	ACGIH Exposure Limits:
Phosphoric acid	1 - 5%	7664-38-2	3mg/m ³	1 mg/m ³ 3mg/m ³ STEL
Glycol ether	1 - 5%	EPA Code N230	None	None
Phosphate ester potassium salt	1 - 5%	Proprietary	None	None

3. HAZARDS IDENTIFICATION

Emergency Overview

The product causes burns of eyes, skin and mucous membranes.
Risk of serious damage to eyes
Harmful if swallowed.

Principle routes of exposure: Eyes, skin and inhalation.
Signal word: DANGER
Eye contact: Causes eye burns.
Skin contact: Causes skin burns.
Inhalation: Irritating to respiratory system.
Ingestion: Can burn mouth, throat, and stomach.

Physico-chemical properties: No hazards resulting from material as supplied.

4. FIRST AID MEASURES

General advice: If symptoms persist, call a physician.. Show this safety data sheet to the doctor in attendance..

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician

Skin contact: Rinse immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Consult a physician.

Ingestion: Call a physician immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: Call a physician immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to physician: This product contains phosphoric acid

Medical condition aggravated by exposure: Dermatitis

5. FIRE-FIGHTING MEASURES

Flash point (°C): NA **Flash point (°F):** NA **Flash Point Method:** Not applicable

Flammable limits in air - lower (%): Not determined **Flammable limits in air - upper (%):** Not determined

Suitable extinguishing media: Use dry chemical, CO₂, water spray or 'alcohol' foam.

Unusual hazards: None known

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific methods: Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid contact with skin, eyes and clothing Do not breathe vapour/dust.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: In case of insufficient ventilation, wear suitable respiratory equipment.

Storage

Technical measures/storage conditions: Store at room temperature in the original container

Incompatible products: Do not store together with alkalines

Safe storage temperature: 4 - 40 °C

Shelf life: 6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Listed Components	ACGIH Exposure Limits:	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
Phosphoric acid	1 mg/m ³ 3mg/m ³ STEL	3mg/m ³	1mg/m ³ TWA 3mg/m ³ STEL	

Engineering measures: Ensure adequate ventilation.

Personal Protective Equipment

General: Eye Wash and Safety Shower

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Rubber gloves

Skin and body protection: Chemical resistant apron. Long sleeved clothing.

Eye protection: Goggles.

Hygiene measures: General industrial hygiene practice. Avoid contact with the skin and the eyes.



9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state: Liquid.
Color: white, light yellow
Odour: Characteristic
Boiling point/range (°C): >100
Boiling point/range (°F): >212
Vapour density: Not determined
Vapour pressure: Not determined
Solubility: Completely soluble
Evaporation rate: Not determined

VOC Content Product: Not determined
pH: 1.0-2.5@100%
Flash point (°C): NA
Flash point (°F): NA
Decomposition temperature: Not determined
Autoignition temperature: Not determined
Density @ 15.5 ° C (g/cc) : 1.245
Bulk density @ 60 ° F (lb/gal): 10.39
Partition coefficient
(n-octanol/water, log Pow): Not determined
Explosive properties:
- upper explosion limit: No data available
- lower explosion limit: No data available

10. STABILITY AND REACTIVITY

Conditions to avoid:

None known

Materials to avoid:

Strong oxidising agents, Strong bases

Hazardous decomposition products:

None under normal use

Stability:

Stable under recommended storage conditions.

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Listed Components	NTP:	IARC:	OSHA - Select Carcinogens	NIOSH - Selected LD50s and LC50s
Phosphoric acid	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	1530mg/kgOral LD50Rat 2740mg/kgDermal LD50Rabbit 850mg/m ³ Inhalation LC50Rat
Glycol ether	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	
Phosphate ester potassium salt	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	

12. ECOLOGICAL INFORMATION

Persistence and degradability: No information available

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: Not Determined

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging:

Do not re-use empty containers

Methods for cleaning up:

Take up mechanically and collect in suitable container for disposal.

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name:

Oxidizing liquid, corrosive, N.O.S. (contains phosphoric acid and sodium chlorate)

D.O.T. Hazard Class(es)

5.1

UN/NA ID Number:

3098

Packing group:
RQ:
Emergency Response Guide Number:

III
Phosphoric acid, RQ kg= 162000
140

TDG (CANADA):

Proper shipping name:

Oxidizing liquid, corrosive, N.O.S. (contains phosphoric acid and sodium chlorate)

IMDG/IMO:

Proper shipping name:

Oxidizing liquid, corrosive, N.O.S. (contains phosphoric acid and sodium chlorate)

IATA/ICAO:

Proper shipping name:

Oxidizing liquid, corrosive, N.O.S. (contains phosphoric acid and sodium chlorate)

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELING

OSHA Hazard Communication Standard:

This product is considered to be hazardous.

Canada - WHMIS Classification Information:

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Product Classification:

Class E - Corrosive Material

Product Classification Graphic(s):



Component Classification Data:

Phosphoric acid - 7664-38-2

WHMIS hazard class: 1 % (English Item 1291, French Item 127)
E

U.S. REGULATIONS:

SARA (311, 312) hazard class: This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): No
Flammability: No
Pressure: No
Reactivity: No

Phosphoric acid - 7664-38-2

CERCLA/SARA 313 Emission reporting

Listed

Glycol ether - EPA Code N230
CERCLA/SARA 313 Emission reporting

Listed

RCRA Status corrosive D002

STATE REGULATIONS (RTK):

California Proposition 65 Status: No components are listed

Phosphoric acid - 7664-38-2

MARTK:

Present

NJRTK:

sn 1516

PARTK:

environmental hazard

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory: This product complies with TSCA

Canada DSL Inventory List - This product complies with DSL

Canada NDSL Inventory List - NDSL compliance has not been determined

Canadian Inventory Status: The components of this product are listed on the DSL, the NDSL or are not required to be listed.

EU EINECS/ELINCS/NLP list: Compliance has not been determined

16. OTHER INFORMATION

Sources of key data used to compile the data sheet: Material safety data sheets of the ingredients.

Reason for revision: New Format

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

HMS classification:

NFPA rating:

Health:

Health:

3

3

Flammability:

Flammability:

0

0

Reactivity:

Reactivity:

1

1

Personal Protection:

Special:

H

NA

* Indicates possible chronic health effect

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer:

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. Quaker Chemical Corporation ("Quaker") assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of Quaker.

End of Safety Data Sheet