



REC'D MAY 12 2012

Material Safety Data Sheet

Print date: 04/21/2005

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1. COMPANY AND PRODUCT IDENTIFICATION

Product code: 008796-08

Product name: **ACID CLEAN 508 GE****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

Components	Weight %	CAS No.	OSHA Ceiling Limits	OSHA TWA (final):	ACGIH Ceiling Limits	ACGIH Exposure Limits:	Vendor Exposure Limits:
Phosphoric acid	40 - 50%	7664-38-2		1mg/m ³		1 mg/m ³ 3mg/m ³ STE L	
Oxalic acid	1 - 5%	144-62-7		1mg/m ³		1 mg/m ³ 2mg/m ³ STE L	

3. HAZARDS IDENTIFICATION

Emergency Overview**CORROSIVE**

The product causes burns of eyes, skin and mucous membranes.

May cause irritation of respiratory tract.

May be 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:** May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. 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.

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

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

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

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Notes to physician: Oxalic acid is a systemic poison. It has been shown to cause delayed kidney and heart damage

Medical condition aggravated by exposure: Dermatitis.

5. FIRE-FIGHTING MEASURES

Flash point (°C): NA BOILS

Flash point (°F): NA BOILS

Flash Point Method: COC

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

Flammable limits in air - lower (%): 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. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

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

Methods for cleaning up: Neutralise with lime milk or soda and flush with plenty of water.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions:

Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice:

Do not breathe mist or vapors. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage**Technical measures/storage conditions:**

Store at room temperature in the original container

Incompatible products:

bases, strong oxidizing agents

Safe storage temperature:

40-100 F

Shelf life:

6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH Ceiling Limits	ACGIH Exposure Limits:	OSHA Ceiling Limits	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
Phosphoric acid		1 mg/m ³ 3mg/m ³ STEL		1mg/m ³	1mg/m ³ TWA 3mg/m ³ STEL	None
Oxalic acid		1 mg/m ³ 2mg/m ³ STEL		1mg/m ³	1mg/m ³ TWA 2mg/m ³ STEL	None

Engineering measures:

Ensure adequate ventilation.

Personal Protective Equipment**General:**

Eye Wash and Safety Shower

Respiratory protection:

Respirator with NIOSH/MSHA approval and filter

Hand protection:

Rubber gloves, Impervious gloves

Skin and body protection:

Chemical resistant apron

Eye protection:

Goggles., Wear face-shield and protective suit for abnormal processing problems.

Hygiene measures:

Avoid contact with skin, eyes and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:****Physical state:**

Liquid

Color:

Clear Yellow

Odour:

Characteristic

Boiling point/boiling range (°C):

>100

Boiling point/range (°F):

>212

Vapour pressure:

Not determined

Vapour density:

Not determined

VOC Content Product:

Not determined

Solubility:

Completely soluble

Evaporation rate:

Not determined

pH:	1.4 - 2.1 @ 2%
Flash point (°C):	NA BOILS
Flash point (°F):	NA BOILS
Decomposition temperature:	Not determined
Auto-ignition temperature:	Not determined
Density @ 15.5 ° C (g/cc) :	1.291 @72F
Bulk density @ 60 ° F (lb/gal):	10.77
Partition coefficient	Not determined
(n-octanol/water, log Pow):	
<u>Explosive properties:</u>	
- upper limit:	No data available
- lower limit:	No data available

10. STABILITY AND REACTIVITY

Conditions to avoid:

None known

Materials to avoid:

Alkali metals, Strong oxidising agents

Hazardous decomposition products:

Oxides of phosphorus, Carbon oxides

Stability:

Stable under recommended storage conditions.

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

Oxalic acid has been shown to cause delayed kidney and heart damage. Ingestion may cause systemic poisoning.

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

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/m³Inhalation LC50Rat
Oxalic 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.	7500mg/kgOral LD50Rat

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

Phosphoric acid

Ecotoxicity - Fish Species Data = 138 mg/L LC50 mosquito fish 96 h

Oxalic acid

Ecotoxicity - Fish Species Data = 1350 mg/L LC50 mosquito fish 24 h Static
= 4000 mg/L LC50 bluegill 24 h Static

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: Neutralise with lime milk or soda and flush with plenty of water..

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

UN/NA ID Number:	UN1805
Proper shipping name:	Phosphoric acid, liquid, solution
Hazard Class	8
Subsidiary risk:	
Packing group:	III
RQ:	Phosphoric acid, RQ kg= 5670
Emergency Response Guide Number:	154

DOT Label(s):

Shipping Description:

UN1805 Phosphoric acid, liquid, solution 8 III

TDG (CANADA):

UN nr:	UN1805
Proper shipping name:	Phosphoric acid, solution
TDG Hazard Classification:	8
Subsidiary class:	
Packing group:	III

IMDG/IMO:

UN nr:	UN1805
Proper shipping name:	Phosphoric Acid Solution
Class:	8
Subsidiary class:	
Packing group:	III
EMS:	F-A. S-B
Limited quantity:	5L

IATA/ICAO:

UN nr:	UN1805
Proper shipping name:	Phosphoric Acid, Solution
Hazard Class:	8
Subsidiary class:	
Packing group:	III
Maximum quantity for cargo only:	60L
Maximum quantity for passenger:	5L
Limited quantity:	1L

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELING

OSHA Hazard Communication Standard:	This product is considered to be hazardous under the OSHA Hazard Communication Standard.
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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.
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Product Classification:	Class E - Corrosive Material Class D1- Poisonous and Infectious Material: Immediate and serious toxic effects
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Product Classification Graphic(s):



Component Classification Data:

Phosphoric acid - 7664-38-2

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

Oxalic acid - 144-62-7

WHMIS hazard class: 0.1 % (English Item 1228, French Item 120)
D1B, E

**Canadian National Pollution
Inventory Data:**

U.S. REGULATIONS:

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

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

RCRA Status To be disposed of as hazardous waste
characteristic:
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

Oxalic acid - 144-62-7

MARTK: Present
NJRTK: sn 1445
PARTK: Present

INVENTORY STATUS:

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

Canada DSL Inventory List - This product complies with DSL

EC No. 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

HMIS classification:

NFPA rating:

Health:

3*

Health:

3

Flammability:

0

Flammability:

0

Reactivity:

1

Reactivity:

1

Personal Protection:

H

Special:

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