

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **BREWHOUSE ACID CLEANER**

Printing Date: 03/23/2015

Product Use: Non-foaming acid cleaner.

Company Identification:

US Headquarters

ORCHEM CORPORATION

4927 Beech Street

Cincinnati, Ohio 45212

General Information

Health/Transportation Emergency-Chem-Tel

Fax

E-Mail

Contact Information:

(513) 874-9700

(800) 255-3924

(513) 874-3624

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2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Corrosive to metals (Category 1), H290

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

PICTOGRAM:



SIGNAL WORD: DANGER

HAZARD STATEMENTS – LABEL ELEMENTS

Health Hazard Statement(s)

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

Physical Hazards Statement(s)

H290

May be corrosive to metals.

Precautionary Statement(s) – Prevention

P260

Do not breathe dust, fume, gas, mist, vapors, spray.

P264

Wash skin and contaminated clothing thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves, eye protection, face protection.

Precautionary Statement(s) – Response

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. No NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363

Wash contaminated clothing before reuse.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/physician.

Precautionary Statement(s) – Storage

P405

Store locked up.

Precautionary Statement(s) – Disposal

P501

Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations.

Hazards Not Otherwise Classified (HNOC)

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT(S) | CAS# | WEIGHT % |
|-----------------|-----------|----------|
| sulfuric acid | 7664-93-9 | 15-20 |
| phosphoric acid | 7664-38-2 | 5-10 |
| nitric acid | 7697-37-2 | 1-5 |

> 55% of mixture consists of ingredients of unknown toxicity. Exact percentages are withheld as trade secrets.

4. FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

SKIN CONTACT: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

INHALATION: Get medical attention immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

INGESTION: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously keep airway clear.

NOTES TO PHYSICIAN: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

GENERAL INFORMATION: As in any fire, wear a self contained breathing apparatus in pressure-demand, MSHA/NIOSH (Approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion involved in a fire. Use water spray to keep fire exposed container cool. Container may explode in heat of a fire.

EXTINGUISHING MEDIA: Use media suitable to the cause of the surrounding fire. Do NOT use straight streams of water.

6. ACCIDENTAL RELEASE MEASURES

In Case Of Spill Or Other Release: Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicated this is necessary. Use non-sparking tools and equipment. Dike to prevent spread. Absorb with inert material. Sweep or shovel spilled materials in suitable containers. Dispose of in accordance with all local, state, and federal requirements. Do not allow product or residue to enter waterway or any source of drinking water.

7. HANDLING AND STORAGE

Handling: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in original container. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool, and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from reducing materials, organic peroxides, hypochlorite and alkali. Keep container tightly closed and sealed until ready for use. Do not store in metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower (ANSI Z358.1). Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

| COMPONENT | CAS# | ACGIH TWA | ACGIH STEL | ACGIH CEILING | OSHA FINAL PEL TWA | IDLH |
|-----------------|-----------|-----------------------|---------------------|------------------|-----------------------|---------------------|
| sulfuric acid | 7664-93-9 | 0.2 mg/m ³ | --- | --- | 1 mg/m ³ | --- |
| phosphoric acid | 7664-38-2 | 1 mg/m ³ | 3 mg/m ³ | --- | 1 mg/m ³ | 3 mg/m ³ |
| nitric acid | 7697-37-2 | 2 ppm | 4 ppm | --- | 2 ppm | 25 ppm |

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 or European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure (29 CFR 1910.138 or EN374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|--------------------|
| Physical State: | Liquid |
| Appearance: | Clear |
| Color: | White to off white |
| Odor: | Mild acidic |
| Boiling Point/Range: | No Data |
| Freezing Point/Range: | No Data |
| Flash Point: | None |
| Phosphorous Content as %P: | ~ 1 |
| Vapor Pressure: | No Data |
| Vapor Density (air=1): | No Data |
| V.O.C.: | None |
| Specific Gravity (water=1): | ~ 1.16 |
| Water Solubility: | 100% |
| pH: | < 2 @100% |
| Volatility: | No Data |
| Evaporation Rate: | No Data |

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Incompatibility with Various Substances: Reactive or incompatible with the following materials: reducing materials, metals, alkali, hypochlorite.

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Products: Decomposition products may include the following materials: phosphorous oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

TOXICITY: No Data Available For Product.

CARCINOGENICITY:

| Product/Ingredient Name | ACGIH | IARC | NTP |
|-------------------------|-------|------|-----|
| sulfuric acid | A2* | 1 | --- |

* A2 – Suspected human carcinogen (contained in strong inorganic mist).

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: No Data Available For Product.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classifications.

14. TRANSPORTATION INFORMATION

U.S. DOT Bill of Lading Description: UN 3264, corrosive liquid, acidic, inorganic, N.O.S. (sulfuric acid, phosphoric acid, nitric acid), 8, II

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

U.S. REGULATIONS

CALIFORNIA PROPOSITION 65: None of the components of this product are listed.

STATE RIGHT TO KNOW (RTK)

| INGREDIENT(S) | CAS# | MA | NJ | PA | MN |
|-----------------|-----------|----|----|----|-----|
| sulfuric acid | 7664-93-9 | X | X | X | --- |
| phosphoric acid | 7664-38-2 | X | X | X | X |
| nitric acid | 7697-37-2 | X | X | X | X |

CERCLA/SARA 302/304

| INGREDIENT(S) | CAS# | WEIGHT % | CERCLA/SARA RQ(LBS) | SECTION 302TPQ (LBS) |
|-----------------|-----------|----------|---------------------|----------------------|
| sulfuric acid | 7664-93-9 | 15-20 | 1000 | 1000 |
| phosphoric acid | 7664-38-2 | 5-10 | 5000 | --- |
| nitric acid | 7697-37-2 | 1-5 | 1000 | 1000 |

SARA 311/312 Hazard categories

Immediate: X
Delayed: X
Fire: ---
Reactivity: ---
Sudden Release Of Pressure: ---

SARA 313:

CAS# 7664-93-9 and 7697-37-2 are listed.

Clean Air Act:

Not regulated.

Clean Water Act:

CAS# 7664-93-9, 7664-38-2, and 7697-37-2 are listed.

16. OTHER INFORMATION

Hazardous Material

Information System (U.S.A.)

Health: 3

Flammability: 0

Physical Hazard: 0

National Fire Protection

Association (U.S.A.)

Health: 3

Flammability: 0

Reactivity: 0

HMIS and NFPA use a numbering scale ranging from 0-4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

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Prepared by: Compliance Group

The information contained in this Safety Data Sheet is intended to comply with the requirements of 29 CFR 1910.1200. This information is believed to be accurate and based on data available to ORCHEM CORPORATION at this time. It is intended to be used as a guide to the safe handling and use by properly trained individuals. It is the end users responsibility to determine the suitability of the information for their particular purposes. This information is provided without warranty.