

## 3141 Clifty Drive Madison, IN 47250

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME: TYPE:

**PRODUCT #** 

Acid cleaner 725001

## FOR INDUSTRIAL USE ONLY - KEEP OUT OF THE REACH OF CHILDREN

#### EMERGENCY RESPONSE INFORMATION:

CHEMTREC	800-424-9300	24-Hour Service
Company Offices:	812-273-6000	Weekdays
Cara Cyrus:	812-599-3611	Evenings and Weekends
Bill Torline:	812-599-4976	Evenings and Weekends
PREPARED DATE:	10-12-16	PREP

PREPARED BY:

Natalie Green

		SECTION 2: HAZA	<b>RDS IDENTIFICAT</b>	ION	
GHS Classification	Acute T Skin Co Serious Carcino	ve to Metals oxicity, Inhalation orrosion/Irritation Eye Damage/Eye Irritation genicity Toxicity (Acute)	Category 1 Category 3 Category 1A Category 1 Category 1A Category 4	H290 H331 H314 H318 H350 H413	
Signal Word	DAN	IGER			
Symbol	J.F.				
Hazard Statements	H290	May be corrosive to metals.			
	H314	Causes severe skin burns and	eye damage.		
	H318	Causes serious eye damage.			
	H331 H350	Toxic if inhaled. May cause cancer (Inhalation	of mists)		
	H413	May cause long lasting harmfu			
Precautionary Statements		, , ,			
	P201	Obtain special instructions bef			
	P202	Do not handle until all safety p		ead and understood.	
	P234 P261	Keep only in original container			
	P261 P264	Avoid breathing dust/fume/gas Wash hands, forearms, and ex		v after handling	
	P271	Use only outdoors or in a well-		y and handling.	
	P273	Avoid release to the environm			
	P280	Wear eye protection, face prot	ection, protective clothi	ng, protective gloves.	
	P281	Use personal protective equip			
			ED: rinse mouth. Do N		
			(or hair): Take off imm	ediately all contaminated clothing.	Rinse skin with
	water /	snower			

#### Precautionary Statements (cont'd)

P304 + P340 IF INH.	ALED: Remove person 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.

- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see Section 4).
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.
- P501 Dispose of contents / container according to local, regional, national and international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS				
COMPONENT	SYNONYM	CAS NO.	<u>% BY WEIGHT</u>	
Sulfuric acid	None	7664-93-9	10 – 20	
Fluorides, as F	None	N.D.	1 – 10	

\*If Chemical Name/CAS No is "proprietary" and/or % By Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret\*

#### **SECTION 4: FIRST AID MEASURES**

DESCRIPTION OF FIRST AID MEAS	SURES:
EYES:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
SKIN:	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
	Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash
	clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
INGESTION:	Do NOT induce vomiting. Give water. Never give anything by mouth if the person is unconscious or if
	having convulsions. Call a physician.
INHALATION:	Remove subject to fresh air and get medical attention.
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PRIMARY ROUTE(S) OF ENTRY:	Eyes, skin.
MOST IMPORTANT SYMPTOMS / E	FFECTS, ACUTE AND DELAYED:
GENERAL:	Causes serious skin burns and eye damage. Toxic if inhaled. May cause cancer by inhalation of mist.
EYE CONTACT:	Causes severe damage.
SKIN CONTACT:	Will cause skin irritation. Corrosive. Causes severe burns.
INGESTION:	May be harmful if swallowed.
INHALATION:	May cause nasal and respiratory irritation.
CHRONIC SYMPTOMS:	May cause cancer by inhalation of mist.

#### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

### **SECTION 5: FIRE FIGHTING MEASURES**

### EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

### SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Product is not explosive, however this product reacts with most metals to release hydrogen gas which can form explosive mixtures with air. Hazardous reactions will not occur under normal conditions. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot liquid.

#### ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus with full face piece operated in positive pressure mode and full body protective clothing. Use water spray to keep containers cool. **Hazardous Combustion Products:** Acid vapors, sulfur oxides, explosive hydrogen gas may be formed by reacting with certain metals.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Avoid breathing vapors. Wear butyl rubber gloves. Goggles and face shield necessary. Wear full protective acid resistant clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Remove sources of ignition and use non-sparking tools. Dispose with solid waste. See Waste Disposal Method. Ventilate area. Do not discharge to sewers or waterways without proper treatment.

## **SECTION 7: HANDLING AND STORAGE**

## PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

## CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for acidic materials. Always slowly add to water while stirring to avoid spattering, boiling and eruption. Never add water to acid. Store away from sources of ignition.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

CHEMICAL IDENTITY	<u>CAS NO.</u>	OSHA PEL	ACGIH TLV
Sulfuric acid	7664-93-9	1 mg / M <sup>3</sup>	0.2 mg / M <sup>3*</sup>
Fluorides, as F	N.D.	2.5 mg / M <sup>3</sup>	2.5 mg / M <sup>3</sup>

\*Thoracic fraction

### ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

### INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

### **RESPIRATORY PROTECTION:**

In absence of proper environmental control, use NIOSH / MSHA approved inorganic acid vapor respirator for mists where airborne exposure is excessive.

### SKIN PROTECTION:

Butyl rubber gloves. Other equipment as required to avoid contact.

### EYE PROTECTION:

Goggles and face shield necessary.

### **GENERAL HYGIENE CONSIDERATIONS:**

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Clear, amber liquid.

APPEARANCE: ODOR: ODOR THRESHOLD: pH (100%): MELTING POINT/FREEZING POINT INITIAL BOILING POINT AND BOILING RANGE FLASH POINT (METHOD USED) EVAPORATION RATE FLAMMABILITY (SOLID, GAS) UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT VAPOR PRESSURE VAPOR DENSITY SPECIFIC GRAVITY SOLUBILITY IN WATER PARTITION COEFFICIENT: N-OCTANOL/WATER

Mild. Not available. 2.0 to 2.5 Not available. 220°F (104.4°C) Not available. Not available. Not available. Not available. Not available. 1.12 Complete. Not available.

AUTO-IGNITION TEMPERATURE VISCOSITY, DYNAMIC DECOMPOSITION TEMPERATURE VISCOSITY Not available. Not available. Not available. Not available.

## **ECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:	Hazardous reactions will not occur under normal conditions.		
CHEMICAL STABILITY:	Contains an oxidizing material which may accelerate fire.		
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization will not occur.		
CONDITIONS TO AVOID:	Direct sunlight. Extremely high temperatures. Ignition sources, Incompatible materials.		
	Heat, sparks, open flame.		
INCOMPATIBLE MATERIALS:	Alkaline materials, such as metals, metal oxides, hydroxides, nitrates, amines,		
	carbonates, etc., strong reducing agents, combustible materials.		
HAZARDOUS DECOMPOSITION PRODUCTS:	Acid vapors, sulfur oxides, explosive hydrogen gas may be formed by reacting with		
	certain metals.		

## **SECTION 11: TOXOLOGICAL INFORMATION**

ACUTE TOXICITY: LD50 AND LC50 DATA: ROUTES OF EXPOSURE / SYMPTOMS EYES: SKIN: INGESTION: INHALATION: GERM CELL MUTAGENICITY: TERATOGENICITY: CHRONIC EFFECTS / CARCINOGENICITY:	Toxic if inhaled. Not available. S WARNING! Causes serious eye irritation. WARNING! Will cause skin irritation. Corrosive. Causes burns. WARNING! May be harmful if swallowed. May cause nasal and respiratory irritation. Not classified. Not available. IARC has classified occupational exposure to strong inorganic acid mists containing sulfuric acid carcinogenic to humans (Group 1). This classification is for inorganic acid mists only and does not a to sulfuric acid or sulfuric acid solutions in a physical form of strong inorganic acids other than mists. term "mists" refers to a particulate liquid aerosol formed by condensation of a vapor or atomizatio liquid. IARC's classification does not include vapors, odors, or any physical form of strong inorg acids other than mists. Risk of cancer depends on duration and level of exposure.		
SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):	Not classified.		
REPRODUCTIVE TOXICITY:	Not classified.		
SPECIFIC TARGET ORGAN TOXICITY (Single exposure):	Not classified.		
ASPIRATION HAZARD: COMPONENT INFORMATION:	Not classified.		
Sulfuric acid	LD50 Oral: Rat LC50 Inhalation Rat	2140 mg / kg 510 mg / M³ (Exposure time: 2hr)	
Fluorides, as F	No data.		

## **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY	LC50 Ceriodaphnia dubia: 271.15 mg/L/48hr
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Bioaccumulation potential is low to none
MOBILITY IN SOIL:	Not available.
OTHER ADVERSE EFFECTS:	This material contains no hazardous air pollutants (HAPS).
	SECTION 13: DISPOSAL CONSIDERATIONS
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WASTE DISPOSAL METHOD

Normal for acidic wastes containing fluorides. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION				
DOT PROPER SHIPPING NAME: HAZARD CLASS: IDENTIFICATION NUMBER: PACKING GROUP: EMERGENCY RESPONSE GUIDE:	Corrosive liquid, acidic, inorganic, n.o.s. 8 UN3264 II ERG #154	(contains sulfuric acid and fluor	ides)	
	SECTION 15: REGULATORY INF	ORMATION		
VOC: TSCA STATUS CERCLA REPORTABLE QUANTITY	0 pounds per gallon (0 grams per liter). All ingredients are listed on the TSCA inv 1,000 pounds for sulfuric acid (approxima			
SARA 311 / 312 HAZARD CLASSES	x       ACUTE HEALTH         FIRE       SUDDEN RELEASE OF PRESSU         x       CHRONIC HEALTH         REACTIVE	RE		
SARA 312 INFORMATION	Sulfuric acid is an extremely hazardou quantity is 1,000 pounds. Storage of mo			
SARA 313 INFORMATION	This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372			
CHEMICAL NAME Sulfuric acid*	CATEGORY CODE Not applicable	<b>CAS NUMBER</b> 7664-93-9	% BY WEIGHT 15	
*Sulfuric acid is only reportable in aerosol for	rm.		1	
STATE REGULATORY INFORMATION CALIFORNIA PROPOSITION 65	This material contains sulfuric acid, whicl	h California has identified to ca	use cancer.	

## **SECTION 16: OTHER INFORMATION**

SDS STATUS:

Revised sections 2, 3, 12, and 16 on 10-12-16.

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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