

# SAFETY DATA SHEET

Effective Date: 06/01/2015

Supersedes: 05119/2014

OSHA Hazard Communication Standard 29 CFR 1900.1200

Prepared to GHS Rev. 4

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** Show Ready Acid Base Wheel Cleaner HF (Product #1980, 1981, 1982, 1983)  
**Product Use:** Aluminum Cleaner, Brightener and Deoxidizer  
**Use Restrictions:** For Industrial and Professional Use Only  
**Manufacturer:** International Epoxies & Sealers  
30241 Commerce Drive  
San Antonio, FL 33576  
Phone: 352-588-2400

**Transportation Emergency:** INFOTRAC 800-535-5053

## SECTION 2 – HAZARDS IDENTIFICATION

### 1) GHS Classification of the substance or mixture:

Corrosive to metals- Category 1 Acute toxicity, Inhalation- Category 2 Acute toxicity, Dermal- Category 1 Acute toxicity, Oral- Category 2 Serious eye damage- Category 1 Skin Corrosion-Category 1a

### 2) Label Elements:



**Signal Word:** Danger

### Hazard Statements:

H290- May be corrosive to metals  
H300+H310+H330- Fatal if swallowed, in contact with skin or if inhaled.  
H314- Causes severe skin burns and eye damage  
H318- Causes serious eye damage  
H335- May cause respiratory irritation

### Precautionary Statements:

P102- Keep out of reach of children  
P260- Do not breathe fume/mist/vapors/spray  
P262- Do not get in eyes, on skin, or on clothing  
P264- Wash skin thoroughly after handling  
P270- Do not eat, drink or smoke when using this product.  
P280- Wear protective gloves/protective clothing/eye protection/face protection.  
P284- Wear respiratory protection.

### Response Statements:

P303+P353+P361+P363- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338+P310- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do so.

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Continue Rinsing. Immediately call a POISON CENTER or doctor/physician.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P310+P330+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

## Storage and Disposal Statements:

P405- Store locked up.

P501- Dispose of contents/container in accordance with local/regional/national regulation.

## Other Hazards:

OSHA HCS 2012- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical/Common Name</u>	<u>CAS #</u>	<u>PERCENTAGE</u>	<u>HAZARDOUS</u>
Hydrofluoric Acid	7664-39-3	1-10%	Yes
Sulfuric Acid	7664-93-9	10-20%	Yes
2-Butoxyethanol	111-76-2	1-2%	Yes

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet and obtain medical attention.

**Skin:** Immediately flush affected area with lots of water for at least 2 minutes. Remove contaminated clothing and wash before reuse. Consult a physician.

**Eyes:** Flush immediately with large quantities of running water for at least 5 minutes. Obtain medical attention.

**Ingestion:** Immediately give a lot of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point:** None to boiling

**Autoignition Temperature:** Non combustible

**Lower Explosive Limit:** N/A Upper Explosive Limit- N/A

### General Hazards-

**Fire:** Product is not flammable or combustible.

**Suitable Extinguishing Media:** As required to fight surrounding fire.

**Fire Fighting Procedures:** Wear self-contained breathing apparatus for firefighting if necessary.

**Unusual Fire and Explosion Hazards:** None known

**Hazardous Combustion Products:** None known

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

**Environmental precautions:** Avoid run off to waterways and sewers.

**Methods and material for containment and cleaning up:** Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other

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non-combustible material and transfer to appropriate waste disposal container.

## SECTION 7 – HANDLING AND STORAGE

### Precautions for safe handling:

Avoid contact with skin and eyes by wearing protective clothing and equipment. Avoid inhalation of vapor or mist. Use only with adequate ventilation.

### Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place. Store away from acids, acidic materials and oxidizers.

## SECTION 8 – EXPOSURE CONTROLS/PERSOANL PROTECTION

### Control Parameters:

Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
Sulfuric Acid	7664-93-9	0.2 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
2-Butoxy Ethanol	111-76-2	25 ppm	50 ppm
Hydrofluoric Acid	7664-39-3	0.5 ppm	6 ppm

### Personal Protective Equipment-

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

**Hand protection:** Wear protective gloves made from the following materials- nitrile rubber or polyethylene. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye Protection:** Wear safety glasses with side shields.

**Skin and Body Protection:** Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

**Hygienic Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Products Description:</b>	Clear liquid with a sharp odor
<b>Odor Threshold:</b>	N/D
<b>Melting Point:</b>	N/D
<b>Solubility In Water:</b>	Complete
<b>Boiling Point:</b>	230°F
<b>Specific Gravity (WATER=1):</b>	1.09
<b>Vapor Pressure (mmHg):</b>	N/D
<b>Vapor Density (AIR=1):</b>	N/D
<b>Evaporation Rate (WATER=1):</b>	Approaches water
<b>Flash Point (C.O.C.):</b>	None
<b>pH (1% w/w in water):</b>	1.0 – 1.5

## SECTION 10 – STABILITY AND REACTIVITY DATA

**Reactivity:** No data available.

**Stability:** Stable under recommended storage conditions.

**Material To Avoid:** Avoid contact with alkalis and strong oxidizers such as permanganate, chlorine, etc.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** None

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Sulfuric Acid 93% (CAS 7664-93-9)

**Acute Toxicity:** Harmful if inhaled. May cause respiratory irritation.

**Acute Oral Toxicity:** LD50 Oral: 2,296 mg/kg

**Species:** rat

**Remarks:** Ingestion causes burns to gastrointestinal tract.

**Acute Inhalation Toxicity:** LC50: 510 mg/kg

**Species:** Rat

**Remarks:** Exposure to mist causes severe burns to respiratory system.

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Eye Irritation:** Cause serious eye damage.

### **Respiratory or skin sensitization:**

**Respiratory Sensitization:** Not a respiratory sensitizer

**Skin Sensitization:** This product is not expected to cause skin sensitization.

**Reproductive Toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target Organ Toxicity – single exposure:** May cause respiratory irritation.

**Specific target Organ Toxicity – repeated exposure:** Not classified.

**Aspiration Hazard:** Not an aspiration hazard.

**Chronic Effect:** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 2-Butoxyethanol (CAS 111-76-2)

#### **Acute Toxicity**

**Acute Oral Toxicity:** LD50 Oral: 1,414 mg/kg

**Species:** Guinea Pig

**Remarks:** Ingestion may cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

**Acute Inhalation Toxicity:** LC50: ~932ppm

**Exposure Time:** 4 hours

**Species:** Guinea Pig

**Remarks:** Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

**Acute Dermal Toxicity:** LD50: >2,000 mg/kg

**Species:** Guinea pig

**Remarks:** Minimal hazard by skin contact with liquid and vapor. This material may be absorbed through the skin. High dermal doses (most likely achieved from exposure to undiluted liquid) may cause weakness, headache and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.

**Skin Corrosion/Irritation:** Causes moderate skin irritation.

**Serious Eye Damage/Eye Irritation:** Causes moderate eye damage.

**Respiratory or Skin Sensitization:**

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**Skin Sensitization:** This product is not expected to cause skin sensitization.

**Reproductive Toxicity:** OECD Test NO. 416: Two-Generation Reproduction Toxicity Study (Mouse, Male and Female); NOAEL: 720 mg/kg; NOAEL: 720 mg/kg; NOAEL: 720 mg/kg; Ingestion.

**Developmental Toxicity:** Rat, Male and Female, NOAEL: 100 mg/kg; NOAEL: 30 mg/kg; Ingestion

**Specific Target Organ Toxicity – single exposure:** Not classified.

**Specific Target Organ Toxicity – repeated exposure:** Not classified.

**Aspiration Hazard:** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

## Hydrofluoric Acid (CAS 7664-39-3)

**Acute Toxicity:** No data available.

**Carcinogenicity:**

IARC:3-Group 3: Not classifiable as to its carcinogenicity to humans (Hydrofluoric Acid)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No data available.

**Specific Target Organ Toxicity – single exposure:** Not data available.

**Specific Target Organ Toxicity – repeated exposure:** Not data available.

**Aspiration Hazard:** No data available.

**Additional Information:**

RTECS: Not available.

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. Material can cause severe burns and blistering which may not be immediately painful or visible. The full extent of tissue damage may not exhibit itself for 12-24 hours after exposure. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, necrosis of the skin.

## SECTION 12 – ECOLOGICAL INFORMATION

### Sulfuric Acid 93% (CAS 7664-93-9)

**Ecotoxicity:** Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

**Aquatic Toxicity:** LC50 Oral: 45.0644 mg/l

**Duration:** 96 hours

**Species:** Fish

**Persistence and Degradability:** No data is available on the degradability of this product.

**Bioaccumulative Potential:** No data available.

**Mobility In Soil:** No data available.

**Other Adverse Effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 2-Butoxyethanol (CAS 111-76-2)

**Ecotoxicity:**

**Aquatic Toxicity (fish):** LC50: 1,474 mg/l

**Duration:** 96 hours

**Species:** Oncorhynchus mukiss

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**Aquatic Toxicity (Aquatic Invertebrates):** EC50: 1,550 mg/l  
**Duration:** 48 hours  
**Species:** Water flea

## Chronic Hazards To The Aquatic Environment

**Toxicity (fish) NOEC:** >100 mg/l  
**Duration:** 21 days  
**Species:** Zebra fish

**Toxicity (Aquatic Invertebrates) NOEC:** 100 mg/l  
**Duration:** 21 days  
**Species:** Daphnid

**Toxicity (Aquatic Plants) EC50:** 1,840 mg/l  
**Duration:** 72 hours  
**Species:** Algae 9Pseudokirchneriella subcapitata)

**Persistence and Degradability:** 90.4% (28 d) Readily biodegradable.

**Bioaccumulative Potential:** Potential to bioaccumulate is low.

**Partition Coefficient n-octanol/water (log Kow):** Log Kow: 0.81 20°C

**Mobility In Soil:** Expected to partition in water.

**Other Adverse Effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Hydrofluoric Acid (CAS 7664-39-3)

**Ecotoxicity:** No data available.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility In Soil:** No data available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Further information:** Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations.

## SECTION 14 – TRANSPORT INFORMATION

Transport in accordance with all federal, state and local regulations.

### DOT

Un Number: UN3264

UN Proper Shipping Name: Corrosive Liquid, acidic, inorganic, n.o.s. (Hydrofluoric & Sulfuric Acid)

Hazard Class: 8

Packing Group: II

## SECTION 15 – REGULATORY INFORMATION

**US Federal Regulations:** This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29CFR 1910-

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1200.

**CERCLA Hazardous Substance List (40 CFR 302.4):** Sulfuric Acid 9CAS 7664-93-9) Listed.

**SARA 304 Emergency Release Notification:** Sulfuric Acid (CAS 7664-93-9) 1000 lbs

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**SARA 302 Extremely Hazardous Substance:**

Sulfuric Acid (CAS 7664-93-9) 1000 lbs

Hydrofluoric Acid (CAS 7664-93-3)

**SARA 311/312 Hazardous Chemical:**

Sulfuric Acid (CAS 7664-93-9)

2-Butoxyethanol 9CAS 111-76-2) – immediate (acute) health hazard; delayed (chronic) health hazard; fire hazard

**SARA 313 (TRI Reporting):**

Sulfuric Acid (CAS 7664-93-9)

Hydrofluoric Acid (CAS 7664-93-3)

2-Butoxyethanol (CAS 111-76-2)

**Other Federal Regulations:**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not Regulated.

**Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130):** Sulfuric Acid (CAS 7664-93-9)

**US State Regulations**

**US California Candidate Chemicals: Listed on initial list:** Sulfuric Acid (CAS 7664-93-9)

**US Massachusetts RTK – Substance List:** Sulfuric Acid (CAS 7664-93-9), Hydrofluoric Acid (CAS 7664-93-3)

**US New Jersey Worker and Community Right To Know Act:** Sulfuric Acid (CAS 7664-93-9), Hydrofluoric Acid (CAS 7664-93-3)

**US Pennsylvania Worker and Community Right To Know Law:** Sulfuric Acid (CAS 7664-93-9), Hydrofluoric Acid (CAS 7664-93-3)

**US Rhode Island RTK:** Sulfuric Acid (CAS 7664-93-9)

**US California Proposition 65:** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US California Proposition 65 – CRT: Listed date/Carcinogenic substance:** Sulfuric Acid (CAS 7664-93-9) Listed: March 14, 2003

## SECTION 16 – OTHER INFORMATION

References: Not available.

Other special considerations: Not available.

Created: 08/11/2014

Revised From: 12/08/2011

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test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable. Information is correct to the best of our knowledge at the date of the SDS publication.