

## Material Safety Data Sheet

Revision Issued: 10/19/2010 Supercedes: 10/19/2010 First Issued: 10/19/2010

### Section I - Chemical Product And Company Identification

**Product Name: Desert Brand Etch-Off**

CAS Number: N/A

HBCC MSDS No. CD06100



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### Section II - Composition/Information on Ingredients

Chemical Name

Hydroxyacetic Acid

CAS Number

79-14-1

See Section VIII for exposure guidelines

### Section III - Hazard Identification

**Routes of Exposure:** Dermal; Eyes; Ingestion; Inhalation

**Summary of Acute Health Hazards**

**Ingestion:** May cause irritation to the esophagus, stomach, intestinal tract, nausea, and prostration. Kidney damage or fatality may occur from gross ingestion

**Inhalation:** May cause irritation of mucous membranes with upper respiratory and bronchial irritation.

**Skin:** May cause severe irritation to the skin or rash. Higher or prolonged exposure may cause skin burns or ulceration.

**Eyes:** May cause corrosion to the eyes. Permanent eye damage can occur if not treated.

**Summary of Chronic Health Hazards:** None known.

**Signs and Symptoms of Exposure:** See above.

**Effects of Overexposure:** See above.

**Medical Conditions Generally Aggravated by Exposure:** Asthma, Bronchitis.

**Note to Physicians:** Do not induce vomiting.

### Section IV - First Aid Measures

**Ingestion:** Do not induce vomiting. Give large quantities of water. Consult physician immediately.

**Inhalation:** Move to fresh air. If not breathing give artificial respiration Call a physician.

**Skin:** Flush skin with plenty of water. Wash affected areas with soap and water. Consult physician if irritation persists.

**Eyes:** Flush immediately with large amount of water for 15 minutes. Take to physician for medical treatment.

### Section V - Fire Fighting Measures

**Flash Point:** Non Flammable

**Autoignition Temperature:** N/A

**Lower Explosive Limit:** N/A

**Upper Explosive Limit:** N/A

**Unusual Fire and Explosion Hazards:** Contact with active metals may produce flammable hydrogen.

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam or Water fog.

**Special Firefighting Procedures:** Will not burn. **VOC:** Zero g/L:

### Section VI - Accidental Release Measures

Since this product is acidic, neutralize unintended spills with lime or soda ash. Flush spills with plenty of water. This product is biodegradable.

### Section VII - Handling and Storage

Keep containers closed when not in use. Store above 10°C, 50°F

Avoid breathing mist. Do not get in eyes, skin, or clothing. Wash thoroughly after handling.

### Section VIII - Exposure Controls/Personal Protection

**Respiratory Protection:** Wear (MSHA/NIOSH) approved type respirator.

**Ventilation:** Standard exhaust ventilation to keep mist levels below 10 mg/m<sup>3</sup> in 8 hrs.

**Protective Clothing:** Wear protective gloves, splash goggles, and rubber gloves recommended.

**Eye Protection:** Safety goggles.

**Work/Hygienic Practices:** Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

**Exposure Guideline(s):** Hydroxyacetic Acid: CAS Number 79-14-1, Exposure Limits (TWAs) in Air: ACGIH TLV: N/A; OSHA PEL: N/A; STEL: N/A

### Section IX - Physical and Chemical Properties

**Physical State:** Liquid

**pH:** 0.1-1.0@ 77°F

**Freezing Point/Range:** <10°C, 50°F

**Boiling Point/Range:** <112°C; 234°F

**Appearance/Color/Odor:** Clear to light. amber, mild sweet odor.

**Solubility in Water:** Miscible

**Vapor Pressure(mmHg):**  
760mm@100°C

**Specific Gravity(Water=1):** 1.038 - 1.05

**Molecular Weight:** N/A

**Vapor Density(Air=1):** N/A

**% Volatile by Volume:** 82-83

**How to detect this compound :** N/A

**VOC:** ~Zero.

### Section X - Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Excessive Heat; Temperatures below 50°F

**Materials to Avoid:** Strong Oxidizers: .Bleach, Ammonia

**Hazardous Decomposition Products:** N/A

### Section XI - Toxicological Information

Hydroxyacetic Acid:

Inhalation 4 hour LC50: 3.6 g/L in male rats

Inhalation 4 hour LC50: > 5.2 mg/L in female rats

Oral LD50: 1938 mg/kg in rats

### Section XII - Ecological Information

Hydroxyacetic Acid:

24-48 hour LC50, Bluegill sunfish: 93 mg/L

96 hour LC50, Pathead minnow: 164 mg/L

48 hour EC50, Daphnia magna: 141 mg/L

### Section XIII - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations. Biodegradable after seven days.

### Section XIV - Transport Information

**DOT Shipping Description:** UN3265, CORROSIVE LIQUID, ACIDIC ORGANIC, N.O.S. (HYDROXYACETIC ACID), 8, PGIII, LIMITED QUANTITY

### Section XV - Regulatory Information

**Reportable Quantity:** N/A

**NFPA Rating:** Health - 1; Flammability - 0; Instability - 1

**Carcinogenicity Lists:**

**NTP:** No

**IARC Monograph:** No

**OSHA Regulated:** No

### Section XVI - Other Information

**Synonyms/Common Names:** Hydroxyacetic Acid 20% solution

**Chemical Family/Type:** Corrosive Liquids

**Section changed since last revision:** First Issue

**IMPORTANT!** Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, [\*\*Hill Brothers Chemical Company\*\*](#) makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.