

# **MATERIAL SAFETY DATA SHEET**

Division of BioCerax, Inc.

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**SECTION I - Identification** 

Date: September 30, 2000

Product Name: ARISTA UNIVERSAL LIQUID FIXER MSDS #: 22 3514

Chemical Family: Aqueous Acidic Solution

Medical Emergency Telephone: (708) 640 4800

Transportation Emergency Telephone: CHEMTREC® 1 (800) 424 9300 Revision Date:

**SECTION II - Hazardous Components (Typical Values)** 

ACGIH(TLV) **INGREDIENTS** CAS NO. WT% OSHA(PEL) Ammonium Thiosulfate 7783-18-8 30-40 None None Sodium Bisulfite 7681-57-4 3-5 5 mg/m<sup>3</sup> 5 mg/m<sup>3</sup> Acetic Acid 64-19-7 3-5 10 ppm 10 ppm

**SECTION III - Physical / Chemical Data** 

Boiling Point :  $212^{\circ}F$  Solubility in Water (by Weight) : 100% Melting Point : Not Applicable Specific Gravity ( $H_20 = 1$ ) : 1.350

Vapor Pressure : Same as water | Composite Vapor Pressure : Not Applicable

Vapor Density (AIR = 1) : Same as water pH : 5.30

Evaporation Rate : Same as water Volatile Fraction by Weight : Same as water Odor : Clear and colorless Odor : Slight sulfur dioxide

SECTION IV - Fire and Explosion Hazard Data

Volatile Organic Compound

Flash Point : Not flammable

Flammable Limits in Air : Lower : None Upper: None Extinguishing Media : Any extinguishing media applicable to the surrounding area.

: Not Applicable

Special Fire Fighting Procedures : Evacuate personnel to a safe area. Keep personnel away from and upwind of fire.

Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards : When heated to decomposition, emission of toxic fumes of SO<sub>2</sub> are possible.

### SECTION V - Health Hazard Data / SARA - Title III Hazard Categories

A. Acute Exposure Effects (Note: pertains to finished product)

- Eye contact : May cause irritation.

- Skin contact : No dermal irritation as per test performed.

- Inhalation : Normally not a problem, but inhalation of mist could cause respiratory irritation.

- Ingestion : May cause irritation of mucous membranes or digestive tract.

B. First Aid (Applies to finished Product)

- Eyes : Immediately flush with plenty of running water for at least 15 minutes. Obtain

medical attention.

- Skin : Flush affected areas promptly with water for 15 minutes. Remove contaminated

clothing.

-Inhalation : For over-exposure, remove to fresh air.

- Ingestion : Drink milk or water. Induce vomiting. Obtain immediate medical attention.

C. Chronic Health Effects (Note: Pertains to each ingredient listed in section 2 per 29 CFR Sect. 1910.1200)

- A computerized literature search of national databases did not yield any chronic effects associated with

these materials

- Carcinogenicity Listing: NTP = No IAR = No OSHA = No

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### **SECTION VI - Reactivity Data**

Stability : Stable.

Incompatibility : Strong alkalies, oxidizers.

Hazardous Decomposition Products : Oxides of sulfur, CO<sub>2</sub>, carbon monoxide, ammonia.

Hazardous Polymerization : Will not occur.

#### **SECTION VII - Disposal Information**

#### Spill, Leak or Release

NOTE: Review Section IV and VIII before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sand, oil dry or other absorbent material. Spill may be neutralized with Sodium Carbonate.

#### **Waste Disposal**

Recover non-usable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system. Remove non-usable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority and may require pre-treatment.

## **SECTION VIII - Special Protection Information**

A. Respiratory Protection : Sufficient room ventilation.

B. Skin and Eye Protection: Splash protection is suggested, e.g., eyeglasses with side shields, gloves and aprons.

### **SECTION IX - Storage Conditions**

Store in a well ventilated area. Keep container tightly closed. Do not store with incompatible materials (See Section VI). Do not store or consume food, drink or tobacco in an area where they may become contaminated with this material.

## **SECTION X - Hazardous Transportation Regulations**

NON REGULATED

## **SECTION XI - Hazard Communication**

 $\begin{array}{lll} 0 = Insignificant & HEALTH & = 1 \\ 1 = Slight & FLAMMABILITY & = 0 \\ 2 = Moderate & REACTIVITY & = 0 \\ 3 = High & SPECIAL & = 0 \end{array}$ 

4 = Extreme

### **SECTION XII - TSCA Information**

TSCA Listing: All ingredients in this finished product are listed on the EPA TSCA Inventory (See Section II).

## SECTION XIII - Federal EPA - SARA Title III Notification

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (FOR SARA 313).

Components present in this product at a level which could require reporting under the statute are:

Chemical CAS # Upperbound Concentration - %

\*\*\* NONE \*\*\*

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# **SECTION XIV - Regulatory Information**

TSCA	(United States)	The intentional ingredients of this product are listed.
AICS	(Australia)	The intentional ingredients of this product are listed.
DSL/NDSL	(Canada)	The intentional ingredients of this product are listed.
EINECS	(European Union)	The intentional ingredients of this product are listed.
ENCS	(Japan)	The intentional ingredients of this product are listed.
KECL	(Korea)	The intentional ingredients of this product are listed.
PICCS	(Philippines)	The intentional ingredients of this product are listed.
IECSC	(China)	The intentional ingredients of this product are listed.
SWISS	(Switzerland)	The intentional ingredients of this product are listed.

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