MATERIAL SAFETY DATA SHEET

CLAYTON CHEMICAL COMPANY 13310 S. FIGUEROA ST. LOS ANGELES, CA 90061 (310) 538-9530 FAX: (310) 515-6517

SECTION I - Identification

Product Odorless Stop Bath

MSDS #418-82.

Date: January 18, 1993.

Formula: #418-82

Chemical Family: Aqueous Solution

Medical Emergency Telephone:

REVISION#

Transportation Emergency Telephone: (Chemtrec) 1 (800) 424-9300 REVISION DATE:

SECTION II - Hazardous Components (Typical Values)

Ingredients:

CAS NO.

WT%

ACGIH(TLV)

OSHA(PEL)

Hydroxyacetic Acid

79-14-1

50-60

None

None

SECTION III - Physical / Chemical Data

Boiling Point:

Melting Point:

Not Apolicable Same as water

Vapor Pressure: Vapor Density (AIR=1):

Same as water

Evaporation Rate:

Same as water Same as water

Volatile Fraction by Weight: Volatile Organic Compound:

Not Applicable

Solubility in Water (by Weight%):

100% 1.2

Specific Gravity (H2O=1): Composite Vapor Pressure:

Not Applicable

oH:

(0.70 cond.)

Appearance:

Light amber

Odor:

None

SECTION IV - Fire and Explosion Hazard Data

Flash Point:

Not flammable.

Flammable Limits in Air: Extinguishing Media:

Lower: None

Upper: None

Any extinguishing media applicable to surrounding area.

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

self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

When heated to decomposition emission of toxic furnes is possible.

SECTION V - Health Hazard Data / Sara - Title III Hazard Categories

Acute Exposure Effects (Note: Pertains to finished Product)

- Eye contact:

May cause irritation.

- Skin contact:

No dermal irritation as per test performed,

- Inhalation:

Normally no problem, but inhalation of mist could cause respiratory irritation.

Indestion:

May cause irritation of mucous membranes or digestive tract.

First Aid (Applies to finished Product) B.

- Eves:

Immediately flush with plenty of running water for at least 15 minutes;

- Skin:

Obtain medical attention.

Flush affected areas promptly with water for 15 minutes. Remove contaminated clothing. In case of continued irritation consult physician.

- Inhalation:

For overexposure, remove to fresh air.

Ingestion:

Drink milk or water. Do not induce vomiting. Obtain immediate medical attention.

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

MSDS #418-82

SECTION VI - Reactivity Data

Stability:

Stable.

incompatibility:

Metals, oxidizers.

Hazardous Decomposition Products: Hazardous Polymerization:

Hydrogen gas, oxides of nitrogen.

Will not Occur. .

SECTION VII - Disposal Information

Spill, Leak, or Release

NOTE: Review Section IV and Section 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.

Waste Disposal

Recover nonusable free liquid and/or contaminated water, and dispose of in an approved and permitted treatment system. Remove nonusable 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 pretreatment.

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 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 area where they may become contaminated with this material.

SECTION X - Hazardous Transportation Regulations

NON REGULATED

SECTION XI - Hazard Communication

0 = Insignificant

FLAMMABILITY

=0

#1

1 = Slight

REACTIVITY =(

2 = Moderate

SPECIAL

HEALTH

3 = High

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 No.

Upperbound Concentration - %

""NONE""

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