



Division of BioCerax, Inc.

**MATERIAL SAFETY DATA SHEET**

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**SECTION I - Identification**

Date : September 30, 2000  
Product Name: **INDUSTRIAL X-RAY INSTANT ACTIVATOR** MSDS #: 2873  
Chemical Family : Aqueous Alkaline Solution  
Medical Emergency Telephone : (708) 640 4800  
Transportation Emergency Telephone : CHEMTREC® 1 (800) 424 9300 Revision Date: 3/22/02

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

| INGREDIENTS      | CAS NO.   | WT% | ACGIH(TLV)          | OSHA(PEL)           |
|------------------|-----------|-----|---------------------|---------------------|
| Sodium Hydroxide | 1310-73-2 | 3-5 | 2 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup> |
| Sodium Sulfite   | 7757-83-7 | 1-2 | None                | None                |

**SECTION III - Physical / Chemical Data**

|                             |                  |   |                       |
|-----------------------------|------------------|---|-----------------------|
| Boiling Point               | : > 212°F        | Solubility in Water (by Weight)         | : 100%                |
| Melting Point               | : Not Applicable | Specific Gravity (H <sub>2</sub> O = 1) | : 1.075               |
| Vapor Pressure              | : Not Applicable | Composite Vapor Pressure                | : Not Applicable      |
| Vapor Density (AIR = 1)     | : 0.7            | pH                                      | : 13.40               |
| Evaporation Rate            | : Not Applicable | Appearance                              | : Clear and colorless |
| Volatile Fraction by Weight | : Not Applicable | Odor                                    | : None                |
| Volatile Organic Compound   | : Not Applicable |   |                       |

**SECTION IV - Fire and Explosion Hazard Data**

Flash Point : Not flammable  
Flammable Limits in Air : Lower: None Upper: None  
Extinguishing Media : Any extinguishing media applicable to the surrounding area.  
Special Fire Fighting Procedures : Evacuate personnel to a safe area. Keep personnel away from and upwind of fire.  
Wear self-contained breathing apparatus, full protective clothing, use water sprays to cool nearby containers and structures exposed to fire.

Unusual Fire and Explosion Hazards : When heated to decomposition, emission of toxic fumes 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 severe irritation and burning.
  - Skin contact : May cause irritation after prolonged contact.
  - Inhalation : Inhalation of vapors may produce 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. Give artificial respiration if not breathing.
  - Ingestion : Drink milk or water. Do not induce vomiting. Obtain immediate medical attention. Do not give anything by mouth to an unconscious person.
- 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
- D. Medical Conditions Generally Aggravated by Exposure: Pre-existing Lung disease may be aggravated by exposure to product.

**SECTION VI - Reactivity Data**

|                                  |  |
|----------------------------------|--|
| Stability                        | : Stable.                                |
| Incompatibility                  | : Strong acids.                          |
| Hazardous Decomposition Products | : With strong acids, sulfur dioxide gas. |
| 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 Citric Acid.

**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 recommended, 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**

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**SECTION XI - Hazard Communication**

|                   |              |     |
|-------------------|--------------|-----|
| 0 = Insignificant | HEALTH       | = 1 |
| 1 = Slight        | FLAMMABILITY | = 1 |
| 2 = Moderate      | REACTIVITY   | = 0 |
| 3 = High          | SPECIAL      |     |
| 4 = Extreme       |              |     |

**SECTION XII - TSCA Information**

TSCA Listing : All ingredients in this finish 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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September 30, 2000