

Date of Preparation: 4/07

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: *In Line Hot*

Chemical Formula: A Blend of Water Treatment Application Materials

Manufacturer: Continental Research Corp. P.O. Box 15204 St. Louis, MO 63110 Non Emergency Tel No.: 800-325-4869	Emergency Response No.: (800) 255-3924 (Chemtel)
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Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol	OSHA PEL	ACGIH TLV	Other
			TWA STEL	TWA STEL	
Sodium Hydroxide	1310732	0-10	2ppm		
Sodium Nitrite	7632000	10-15	None Est.		
Non Hazardous Ingredients		<u>75-90</u>			
TOTAL		100			

Section 3 - Hazards Identification

+ + + + Emergency Overview + + + +

Potential Health Effects

Primary Entry Routes: Eye Contact, Skin Contact.

Acute Effects: Corrosive to eyes, skin and mucous membranes

Inhalation: High mist concentrations can cause irritation of eyes, nose, throat and lungs. Corrosive mists. May cause damage to the upper respiratory tract and even to the lung tissue proper that could produce chemical pneumonia, depending on the severity of exposure.

Eye: Major Potential Hazard. Destructive to eye tissue on contact. Will cause severe burns that result in damage to the eyes and even blindness.

Skin: Major Potential Hazard. Destructive to tissues contacted, producing severe burns and temporary loss of hair.

Ingestion: Can cause severe burns and complete perforation of mucous membranes of the mouth, throat, esophagus and stomach if swallowed. Can prove fatal.

Carcinogenesis: IARC, NTP, and OSHA do not list this product or its components as a carcinogen.

Medical Conditions Aggravated by Long-term Exposure: No specific information provided on compounds at date of issue.

Chronic Effects: May cause multiple areas of superficial destruction of the skin or dermatitis.

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3	HEALTH
0	FLAMMABILITY
1	REACTIVITY
J	PROTECTIVE EQUIPMENT

+Sec.8

Section 4 - First Aid Measures

Inhalation: Remove person out of contaminated area to fresh air. If breathing has stopped artificial respiration should be started. Oxygen may be administered if readily available. Seek medical attention immediately.

Eye Contact: Flush eyes with a large amount of water for 15 minutes. Seek medical attention IMMEDIATELY. After first aid, get appropriate in-plant, paramedic or community medical support.

Skin Contact: Wash affected areas thoroughly with soap and water for at least 15 minutes. Seek medical attention if any irritation persists.

Ingestion: If swallowed, give large quantities of water to drink. If available give several glasses of milk. DO NOT induce vomiting. After first aid, IMMEDIATELY seek appropriate in-plant, paramedic, or community medical support. Never give anything by mouth to an unconscious person.

Section 5 - Fire-Fighting Measures

Flash Point: Non-Flammable

Flash Point Method: NA

Burning Rate: NIA

Auto-ignition Temperature: NIA

LEL: NIA

UEL: NIA

Extinguishing Media: Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical

Unusual Fire or Explosion Hazards: None known other than material can splatter above 100°C/120°F.

Hazardous Combustion Products: Carbon Monoxide might be released

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures:

Small Spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.

Large Spills:

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent.

Cleanup: Accumulate the absorbed materials and dispose of according to federal, state and local regulations.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120)

Section 7 - Handling and Storage

Handling Precautions: Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other combustible materials. Observe good personal hygiene and housekeeping practices.

Storage Requirements: Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes.

Regulatory Requirements: Store materials according to all local, state and federal guidelines that are established for corrosive materials.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section – 9 Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: RED liquid, slight odor

Vapor Pressure: ND

Vapor Density (Air=1): ND

Specific Gravity (H₂O=1, at 4°C): 1.15+/-

pH: 12+

Water Solubility: Complete

Other Solubilities: N.D.

Boiling Point: 212F/100c

Freezing/Melting Point: ND

% Volatile: 80+/-

Evaporation Rate: ND

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions. However, avoid temperature extremes.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Strong Acids, Leather, Wool, Aluminum, Zinc, Tin and alloys, Oxidizers or any other type of reactive material.

Conditions to Avoid: Contact with any reactive material of any sort. Extreme temperatures

Hazardous Decomposition Products: Reacts with reducing sugars to form hazardous carbon monoxide. Contact with metals may release flammable hydrogen gas.

Section 11 - Toxicological Information

Eye Effects: Corrosive

Acute Inhalation Effects: Corrosive

Skin Effects: Corrosive

Acute Oral Effects: Corrosive to mucous membranes

Chronic Effects: Not determined for this specific blend

Carcinogenesis: Non Carcinogenic

Mutagenicity: Non Mutagenetic

Teratogenicity: Not determined for the blend **See NIOSH, RTECS, for additional toxicity data.

Section 12 - Ecological Information

Eco-toxicity: No specific data is available on this product. However, for the chemical components which make up this product, there may be specific data available and in the public domain. Consult the data available for each individual raw material component.

Environmental Fate: Ground and/or water

Environmental Degradation: NIA

Soil Absorption/Mobility: No studies have been conducted for this blend

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal, state and local regulations.

Disposal Regulatory Requirements:

Container Cleaning and Disposal: Triple rinse the empty containers with water before disposal to re-conditioner or land fill or garbage.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Corrosive Liquid N.O.S.	Packaging Authorizations	Quantity Limitations
Contains: Sodium Hydroxide/Sodium Nitrite		
Shipping Symbols:	a) Exceptions:	a) Passenger, Aircraft or Railcar:
Hazard Class: 8	b) Non-bulk Packaging:	b) Cargo Aircraft Only:
UN No.: 1760	C) Bulk Packaging	
Packing Group: III		Vessel Stowage Requirements
Label: 301J	Label Code: C	a) Vessel Stowage:
Emergency Response Guide No.: 154		b) Other:

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number (40 CFR 261.33):

RCRA Hazardous Waste Classification (40 CFR 261.): Not classified.

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307 (a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ): Sodium Nitrite, (100 lb)

SARA 311/312 Codes:

SARA Toxic Chemical (40CFR 372.65): SEE CERCLA

SARA302/304 EHS (Extremely Hazardous Substance) (40 CFR 355): Sodium Nitrite

Threshold Planning Quantity (TPQ): Sodium Nitrite 10,000 lb

OSHA Regulations:

Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A) See Section 2.

OSHA Specifically Regulated Substance (29 CFR 1910.) See Section 2

State Regulations: As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed information regarding the specific components of this product.

Section 16 - Other Information

Revision Notes:

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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