



# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: RED ZONE READY CS30QT**

## SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

**PRODUCT NAME:** Red Zone Ready

**MANUFACTURER:**

Bridgepoint Systems  
4282S 590W  
Salt Lake City, UT 84123  
Telephone: 801-261-1282  
Prepared 4/17/2012

**EMERGENCIES:** (800) 535-5053 (Infotrac)

**NFPA/HMIS RATINGS:** Health: 2, Flammability: 0, Reactivity: 0

## SECTION 2: INGREDIENTS

**HAZARDOUS INGREDIENTS:**

Sodium Bisulfate (CAS # 7631-90-5 )  
Triethanolamine (CAS # 102-71-6)

**OSHA PEL**

5 mg/m<sup>3</sup>  
N/E

**TLV\_**

5 mg/m<sup>3</sup>  
5 mg/m<sup>3</sup>

## SECTION 3: HAZARDS INFORMATION

Emergency Overview

Warning Statement: None

Primary Entry Routes: Inhalation

Target Organs: Respiratory system, eyes, skin

Acute Effects: Acute effects to exposure of sodium bisulfite includes eye and mucous membrane irritation. Decomposition of Sodium bisulfite may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide. Acute poisoning from sulfur dioxide is rare because the gas is easily detected. It is so irritating that contact cannot be tolerated. Symptoms include coughing, hoarseness, sneezing, tearing, and breathing difficulty.

Inhalation: Irritant

Eye: Irritant

Skin: Irritant

Ingestion: Not likely to occur

Carcinogenicity: **NTP:** Known – No; Anticipated – No **OSHA:** TLV-A4 for Sodium Metabisulfite **IARC:** No

Chronic Effects: Prolonged or repeated exposure may cause dermatitis, and sensitization reactions.

Medical Conditions Aggravated by Long-Term Exposure: Capable of provoking bronchospasm in sulfite-sensitive individuals who have asthma.

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**SECTION 4: FIRST AID MEASURES**

Exposure

Route	Symptom	Treatment
Inhalation:	Sore throat, shortness of breath coughing, and congestion.	Remove from exposure to fresh air. Seek medical attention in severe cases or if recovery is not rapid.
Eye Contact:	Irritation to eyes and mucous membranes.	Irrigate with water until no evidence of chemical remains. Obtain medical attention.
Skin Contact:	Irritation, itching, dermatitis	Wash with soap and drench with water. Remove contaminated clothing and wash before reuse.
Ingestion:	Irritation to mucous membranes.	Give large quantities of water or milk immediately. Obtain medical attention.

After first aid, get appropriate medical attention.

Note to physician: Exposure may aggravate acute or chronic asthma, emphysema and bronchitis.

Special Precautions/Procedures: None indicated.

**SECTION 5: FIRE FIGHTING MEASURES**

Flash Point:	>200 degrees F.
Flash Point Method:	Not Applicable.
Burning Rate:	Not Applicable.
Auto-ignition Temperature:	Not Applicable.
LEL:	Not Applicable.
UEL:	Not Applicable.
Flammability Classification:	Not Flammable.

Extinguishing Media: Use extinguishing agent appropriate for surrounding fire conditions.

Unusual Fire or Explosion Hazards: None indicated.

Hazardous Combustion Products: May release hazardous gas.

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: Wear appropriate PPE - See Section 8.

Small Spills / Leaks: Spills can be neutralized with an alkaline material.

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**SECTION 7: HANDLING & STORAGE**

Handling Precautions: Avoid contact with product. Do not breathe vapor.

Storage Requirements: Avoid heat or moisture. Store in areas, away from heat and protected from physical damage. Segregate from acids and oxidizers.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

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

Respiratory Protection: 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.

Protective Clothing / Equipment: Wear protective gloves to prevent excessive skin contact. Wear protective eyeglasses or goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).

Contaminated Equipment: Remove this material from personal protective equipment as needed.

Comments: Do not eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before food or beverage consumption.

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

**Odor:** Slight alcohol/solvent aroma

**Physical State:** Liquid.

**Appearance:** Clear

**pH:** 7.0

**Specific Gravity:** 1.129

**Boiling Point:** N/E

**Freezing/Melting Point:** N/E

**Vapor Pressure:** N/E

**Vapor Density:** N/E

**Solubility in Water:** Complete

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**SECTION 10: STABILITY & REACTIVITY**

Stability: Stable under normal conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical incompatibilities: In the presence of water, or acid, Sodium Metabisulfite (and solutions) may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide. Acute poisoning from sulfur dioxide is rare because the gas is easily detected. It is so irritating that contact cannot be tolerated. Symptoms include coughing, hoarseness, sneezing, tearing, and breathing difficulty. Reacts with chlorates to form unstable chlorine dioxide.

Conditions to Avoid: Avoid excessive heat, or open flame, and moisture.

Hazardous Decomposition Products: May release hazardous sulfur dioxide gas.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Sodium Bisulfite**

Eye Effects (rabbit): Not available.

Acute inhalation Effects (rat): Not available.

Skin Effects (rabbit): Non-corrosive.

Acute Oral Effects (rat): LD50 = 115 mg/kg

Chronic Effects: Prolonged or repeated exposure may cause dermatitis, and Sensitization reactions. Exposure to asthmatic, atopic and sulfite sensitive individuals may result in severe bronchoconstriction and reduced levels in forced expiratory volume.

**Triethanolamine**

Ingestion - LD50, Rat 4,190 mg/kg

Dermal - LD50, Rabbit > 2,000 mg/kg

Inhalation - The LC50 has not been determined.

Eye damage/eye irritation -May cause moderate eye irritation. Corneal injury is unlikely.

Skin corrosion/irritation -Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause irritation, even a burn.

Repeated Dose Toxicity -Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**SECTION 12: ECOLOGICAL INFORMATION**

**Sodium Bisulfite**

Ecotoxicity: bisulfite is a non hazardous liquid commonly used as a waste water dechlorinating agent.

High concentrations will contribute to elevated chemical oxygen demand in aquatic environments.

Environmental Transport: Soluble in water.

Environmental Degradation: Rapid biological decomposition.

Soil Absorption/Mobility: Slight.

**Triethanolamine**

Material is readily biodegradable.

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested).

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Information:**

Do not dispose of on the land, in surface waters, or in storm drains. Small spills and waste may be flushed into a waste treatment sewer where local regulations permit. Larger quantities should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations. **All disposal must be in accordance with all federal, state and local regulations.**

**SECTION 14: TRANSPORTATION INFORMATION**

**Ground Transportation:** Limited quantity rules apply for inner packaging containing less than 1.3 gallons. Requires limited quantity label.

**Air Transportation:** Check current regulations to determine ability to ship via air.

**Maritime Transportation:** UN1760; Corrosive Liquid, NOS (Sodium Bisulfite); 8; PGIII. Check regulation for limited quantity exceptions.

**SECTION 15: REGULATORY INFORMATION**

Sodium Bisulfite (CAS # 7631-90-5 <15%) CERCLA, MASS, PA

All components are listed on TSCA

CERCLA = Superfund Cleanup Substance

MASS = Massachusetts Hazardous Substance List

PA = PA Right-to-Know List of Hazardous Substances

**SECTION 16: OTHER INFORMATION**

This product has no established regulatory information. All regulatory information given is based on individual components of the mixture by component number. While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy. BRIDGEPOINT SYSTEMS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

N/A = Not applicable N/D = Not determined N/E = Not established