

**Section 1 - Product and Company Identification**

**Product Name:** Catalyzed Sodium Bisulfite Blend  
**CAS Number:** 007631-90-5  
**General Use:** Waste water Dechlorination agent, Boiler Treatment

**Manufacturer:** INEOS Calabrian Corporation  
 5500 Hwy. 366  
 Port Neches, Texas 77651

**Telephone:** 409-727-1471  
**Fax:** 409-727-5803  
**Emergency Contact:** CHEMTREC 800-424-9300

**Section 2 - Hazards Identification**

**Emergency Overview**

**Target Organs:** Respiratory system, eyes, skin  
**GHS Classification:** Acute Toxicity, Oral (Category 4)  
 Acute Toxicity, Dermal (Category 5)  
 Serious Eye Irritant (Category 2A)

**GHS Label Elements:** Signal Word – **Warning**

**Pictograms**



**Corrosive**



**Irritant**

**Hazard Statements:** H302 – Harmful if swallowed  
 H313 – May be harmful to skin  
 H319 – Causes serious eye irritation

**Precautionary Statements:** P280 – Wear protective equipment for hands, eyes, face and respiratory tract  
 P301 + P312 IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell.  
 P305, P351 and P338 – IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and continue rinsing.

**Other Hazards:** Contact with acids liberates toxic sulfur dioxide gas.

**HMIS Classification:** **Health Hazard 2**  
**Flammability 0**  
**Physical 0**

NFPA Rating:	<b>Health Hazard</b>	<b>2</b>
	<b>Fire</b>	<b>0</b>
	<b>Reactivity</b>	<b>0</b>
<b>Potential Health Effects:</b>	<b>Inhalation:</b>	Irritant to respiratory tract
	<b>Eye:</b>	Irritant
	<b>Skin:</b>	Irritant
	<b>Ingestion:</b>	Harmful if swallowed
<b>Aggravated Medical Condition:</b>	Capable of provoking bronchospasm in sulfite sensitive individuals with asthma.	

### Section 3 - Composition / Information on Ingredients

Composition	CAS Number	% Wt
Water	-	50.0 – 70.0
Sodium Bisulfite	007631-90-5	30.0 – 50.0
Sodium Sulfite	007757-83-7	< 1.0
Sodium Sulfate	007757-82-6	< 3.5
Cobalt Sulfate	010124-43-3	< 1.0

### Section 4 - First Aid Measures

Exposure Route	Symptoms	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	Irritation to eyes and mucous membranes.	Irrigate with water until no evidence of chemical remains. Obtain medical attention.
Skin	Irritation, itching, dermatitis	Wash with soap and drench with water. Remove contaminated clothing and wash before reuse. Give large quantities of water or milk immediately. Obtain medical attention.

**Seek appropriate medical attention and provide this SDS to attending doctor**

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

### Section 5 - Fire-Fighting Measures

Flash Point:	Not combustible.
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:	May generate oxides of sulfur (SO <sub>x</sub> )/Hydrogen Sulfide (H <sub>2</sub> S) under fire conditions.
Hazardous Combustion Product:	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 such as caustic soda. Leaks may be located by spraying the area with ammonium hydroxide solution which forms a white fume in the presence of sulfur dioxide.
Large Spills / Leaks:	Large spills should be handled according to a predetermined plan.
Containment:	For large spills, dike far ahead of contaminated runoff for later disposal.

**Section 7 - Handling and Storage**

Handling Precautions:	Avoid contact with product. Wear appropriate PPE. Do not breathe dust or vapor.
Storage Requirements:	Store in areas, away from heat and moisture and protect from physical damage. Segregate from acids and oxidizers.

**Section 8 - Exposure Controls / Personal Protection:**

**Component: Sodium Bisulfite      CAS Number: 007631-90-5**

**ACGIH (TLV)                      TWA: 5 mg/m<sup>3</sup>**

**OSHA (PEL)                      TWA: 5 mg/m<sup>3</sup>**

**NIOSH (REL)                    TWA: 5 mg/m<sup>3</sup>**

**IDLH – None established**

**IDLH - Immediately Dangerous to Life or Health**

**PEL – Permissible Exposure Limit**

**REL – Recommended Exposure Limit**

**TLV – Threshold Limit Value**

**ACGIH – American Conference of Governmental Industrial Hygienists**

**TWA – Time Weighted Average based on 8 hour exposure days and a 40 hour week.**

- Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA limit (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. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air purifying respirators do not protect workers in oxygen deficient atmospheres.
- Protective Clothing / Equipment:** Wear protective gloves, boots, and clothing when necessary to prevent excessive skin contact. Wear protective eyeglasses or goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).
- Safety Stations:** Make emergency eyewash stations, showers, and washing facilities available in the work area.
- 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 and Chemical Properties**

Physical State:	Liquid	Water Solubility:	Complete
Appearance:	Clear Yellow to Pink	Other Solubility:	N/A
Odor Threshold:	Pungent SO <sub>2</sub> odor	Boiling Point:	217 o F
Vapor Density (Air=1):	< 1.0	Freezing Point:	26 o F
Vapor Pressure:	Approx. 32 mm Hg	Melting Point:	N/A
Density:	N/A	Evaporation Rate:	Normal
Specific Gravity (H <sub>2</sub> O=1):	1.3 - 1.4	pH:	2.9 – 4.9

**Section 10 - Stability & Reactivity**

- Stability:** Stable under normal conditions.
- Polymerization:** Hazardous polymerization will not occur.
- Chemical Incompatibilities:** Sodium Bisulfite 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. However, workers who cannot escape high accidental exposure may suffer severe pulmonary damage which can be fatal. Contact with powdered potassium, sodium metals, alkali, and oxidizing agent produce

violent reactions. Reacts with water and steam to form corrosive sulfuric acid. Reacts with chlorates to form unstable chlorine dioxide.

**Conditions to Avoid:** Avoid excessive heat or open flame.

**Hazardous Decomposition Products:** May release hazardous sulfur dioxide gas.

**Section 11 - Toxicological Information**

**Eye Effects (rabbit):** Not available. **Acute Inhalation Effects (rat):** Not available.

**Skin Effects (rabbit):** Not available. **Acute Oral Effects (rat):** LD50 = 2,000 mg/kg

**Carcinogenicity:** IARC, NTP, and OSHA do not list Sodium Bisulfite as a carcinogen.

**Chronic Effects:** Prolonged or repeated exposure may cause dermatitis, and sensitization reactions. Exposure to asthmatic, atopic and sulfite sensitive individuals may result in severe bronchioconstriction and reduced levels in forced expiratory volume. Decomposition of sodium bisulfite solutions may release toxic and hazardous fumes of sulfur oxides, including sulfur dioxide, which may cause permanent pulmonary impairments from acute and chronic exposure. The Immediately Dangerous to Life or Health (IDLH) level for SO<sub>2</sub> is 100 ppm.

**Aquatic Toxicity:** The toxicity threshold of Sodium Bisulfite (100 hr. at 23 degrees Celsius) to Daphnia Magna has been reported to be 102 mg/l. In the presence of additional sodium salts, this threshold may be lower. For minnows, exposed for 6 hours to sodium bisulfite solution in distilled water at 19 degrees Celsius it was 60-65 mg/l, and in hard water at 18 degrees Celsius it was 80-85 mg/l. The 24, 48, and 96 hour LC50 value was 240 mg/l for the mosquito-fish (Gambusia affinis in turbid water at 17 - 22 degree Celsius.

**Section 12 - Ecological Information**

**Ecotoxicity:** Sodium Bisulfite is a non hazardous solution commonly used as waste water dechlorination 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.

**Section 13 - Disposal Considerations**

**Disposal:** Follow applicable Federal, state and local regulations.

**Container Cleaning and Disposal:** Follow applicable Federal, state and local regulations.

**Section 14 - Transport Information**

**Shipping Name:** Bisulfites, aqueous solutions, n.o.s.  
**Technical Name:** Sodium Bisulfite  
**Shipping Symbols:** Corrosive  
**Hazard Class:** 8 - Corrosive  
**Subsidiary Hazard:** NA  
**ID No. (Placard):** UN2693  
**Packing Group:** III  
**Label:** Required  
**Reportable Quantity (RQ):** 5,000 Lbs

**Section 15 - Regulatory Information****EPA Regulations:**

RCRA Hazardous Waste Classification (40 CFR 261): Not listed.  
RCRA Hazardous Waste Number (40 CFR 261): Not listed.  
CERCLA Hazardous Substance (40 CFR 302.4): Listed.  
CERCLA Reportable Quantity (RQ): 5000 pounds  
SARA Title III: Not listed.  
FIFRA: Not regulated.  
TSCA: Inventory listed chemical; PAIR Reportable; Not listed in Toxic Substances Chemical Index

**OSHA Regulations:**

Air Contaminant (29 CFR 1910.1000): Not listed.  
OSHA Specifically Regulated Substance: Not listed.

**Other Regulations:**

Proposition 65 (California): Not Listed

**Section 16 - Other Information**

**Previous SDS issue date:** April, 2015  
**Current SDS issue date:** September, 2016  
**Reason for current revision:** Company name change

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