

Section 1 - Product and Company Identification					
Product Name:		Sodium Bisulfite			
Chemical Formula		NaHSO ₃			
CAS Number:		007631-90-5			
General Use:		Food and pharmaceutical preservative, waste water dechlorination agent, laboratory reagent, reducing agent, dietary supplement, and color preservative			
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 – Hazard Identification			
GHS Classification		Acute Toxicity, Oral (Category 4)	
Symbol(s):		Signal Word: WARNING	
		Hazard Statement	
NFPA Rating		Precautionary Statement	
Health Hazard – 2 Fire – 0 Reactivity – 0		P264	Wash skin thoroughly after handling.
		P270	Do not eat, drink, or smoke when using product
		P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
		P501	Dispose of contents/ container to an approved waste disposal
Other Hazards		Contact with acids or water liberates toxic sulfur dioxide gas.	

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

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
Ingested	Never give anything by mouth to an unconscious person. Rinse mouth with water. CONSULT	
Seek appropriate medical attention and provide SDS to attending Physician.		
Note: Exposure may aggravate acute or chronic asthma, emphysema, and bronchitis.		

Section 5 - Fire-Fighting Measures

Flash Point:	Not combustible.	Flammability Classification:	Not Flammable.
Flash Point Method:	Not Applicable.	UEL:	Not Applicable.
Burning Rate:	Not Applicable.	LEL:	Not Applicable.
Auto Ignition Temperature:	Not Applicable.		
Extinguishing Media:	Use extinguishing agent appropriate for surrounding fire conditions.		
Unusual Fire or Explosion Hazards:	None indicated.		
Hazardous Combustion Product:	May release hazardous gas. (Sulfur oxides, Sodium Oxides)		
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 operated in pressure-demand or positive- pressure mode.		

Section 6 – Accidental Measures

Spill / Leak Procedures	Wear appropriate PPE – 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.
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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/m3	OSHA (PEL) - TWA: 5 mg/m3	NIOSH (REL) - TWA: 5 mg/m3	
IDLH- NONE ESTABLISHED	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	
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.			
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:	N/A
Appearance:	Clear Yellow to Pink	Other Solubility:	N/A
Odor Threshold:	Pungent SO2 odor	Boiling Point:	217°F
Vapor Density (Air=1):	<1.0	Freezing Point:	26°F
Vapor Pressure:	Approx. 32 mm Hg	Melting Point:	N/A
Density:	N/A	Evaporation Rate:	Normal
Specific Gravity (H2O=1):	1.3 – 1.4	pH:	2.9-4.9

Formula Weight:	104	% Volatile	N/A
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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 sulfurous 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 g/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 bronchoconstriction 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 ₂ 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	FIFRA:	Not regulated.
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CERCLA Hazardous Substance (40 CFR 302.4):	Listed	SARA Title III:	Not listed
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CERCLA Reportable Quantity (RQ):	5000	TSCA:	Inventory listed chemical; PAIR Reportable; Not listed in Toxic Substances Chemical Index
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OSHA Regulations:

OSHA Specifically Regulated Substance: Not listed.	Air Contaminant (29 CFR 1910.1000): Not listed.
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Other Regulations:	Proposition 65 (California): Not Listed
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Section 16 - Other Information

This product is NSF certified to NSF/ANSI Standard 60 and is subject to a maximum use limit (MUL) of 50 mg/L for potable water dechlorination applications.

Previous SDS issue date:	September, 2016
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Current SDS issue date:	June 2021
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Reason for current revision	GHS Label Revision
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