

Safety Data Sheet**CHEM-CD Part N**

ClorDiSys Solutions, Inc

Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name: Sodium Sulfit

Chemical Name: Chemical Mixture

Product Use And Restrictions On Use: Paper manufacture, food additive, water treatment, waste treatment, other industrial processes.

Supplier: ClorDisys Solutions, Inc
PO Box 549
Lebanon, NJ 08833

For Chemical Emergency Call CHEMTREC (24 Hours/Day, 7 Days/Week):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

2. HAZARDS IDENTIFICATION

GHS Classification Not Classified as Hazardous
Label Elements None Required

NEPA Classification:		HMS Classification:	
Health:	1	Health:	1
Flammability:	0	Flammability:	0
Instability:	0	Reactivity:	0
		Personal Protection:	E
Special Hazards:	No OSHA Hazards		

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	EINECS#	Weight in Product %	Notes
Sodium Sulfit	7757-83-7	231-821-4	97 %	None
Sodium Sulfate	7757-82-6		< 3%	None

Other Information: **Toxicological Data on Ingredients:** Sodium sulfite: ORAL (LD50): Acute: 820 mg/kg [Mouse.]. 3650 mg/kg [Rat].

Trace impurities and additional material names not listed above may appear in Section 15 of this SDS. These materials may be listed for local "Right-to-Know" compliance and for other reasons. The exact concentrations are trade secret.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary. Get immediate medical attention if signs of suffocation, irritation or other symptoms develop.

Ingestion: If conscious, immediately rinse mouth with water and give 1 glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

Skin Contact: Flush skin with plenty of soap and water. Remove contaminated clothing and shoes and launder before reuse. Get medical attention if irritation persists.

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Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses within 5 minutes if you can do so easily, and continue rinsing. Get medical attention if irritation persists.
Most Important Symptoms/Effects Acute and Delayed:	May irritate the skin May cause irritation to the eyes. Harmful if swallowed or ingaled. May cause severe and possibly fatal allergic reactions if inhaled or swallowed by some asthmatics and over 'sulfite-sensitive' individuals. Reacts with acids to form toxic and irritating sulfur dioxide gas.
Indication of Immediate Medical Attention and Special Treatment, If Needed:	Treat symptomatically. Note potential for anaphylactic shock with allergic individuals.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media:

Material is not flammable. Use extinguishing media appropriate for material in surrounding fire.

Specific Hazards Arising From the Chemical:

Releases toxic and irritating sulfur dioxide at fire temperatures.

Special Protective Equipment and Precautions for Fire-Fighting:

Wear special NIOSH-approved self-contained breathing apparatus. Use water spray to keep conditions cool and to knock down vapors or gasses.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Provide ventilation to clear sulfur dioxide fumes which may be generated by contact with water. Wear appropriate personal protective equipment.

Environmental precautions:

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

Methods and Materials for Containment and Cleaning Up:

Promptly sweep up material with minimum dusting and shovel into an empty container with a cover. Rinse spill area with plenty of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

(see section 8 for recommended personal protective equipment). Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not eat or drink in the work area. Use normal personal hygiene and housekeeping. Keep away from acid and oxidizing agents.

Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, dry, well-ventilated place away from acids and oxidizing

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines:

Ingredient Name	ACGIG TLV	OSHA PEL	Other Limit
Sodium Sulfite	None	None	None
Sodium Sulfate	None	None	None

Other Exposure Limits for Potential Decomposition Products:

Sulfur Dioxide: OSHA TWA = 5 ppm

ACGIH STEL = 0.25

Appropriate Engineering Controls:

Local exhaust if dusty conditions exist or if there is a release of sulfur dioxide gas. Do not use in unventilated spaces, e.g. holds of fishing boats, walk-in coolers or confined spaces.

Personal protective equipment

Respiratory Protection: Where required use a NIOSH-approved respirator for dust, mist and/or sulfur dioxide gas, as conditions indicate. Some exposures may require a NIOSH-approved self-contained breathing

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apparatus or supplied-air respirator. Equipment selection depends on containment type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice

Skin Protection: For handling dry material, wear rubber gloves and full work clothing, including long sleeved shirt and trousers. When handling solutions and there is prolonged or repeated contact, wear impervious gloves, clothing and boots.

Eye protection: Wear chemical safety glasses

Additional Recommendations: Eyewash and safety shower are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid (solid crystals or powder).
Color:	White to pale yellow.
Odor:	Odorless.
Odor Threshold:	Not determined.
Molecular Weight:	126.04
Chemical Formula:	Na_2SO_3
Relative Density (H₂O = 0)	2.63
Solubility in Water (weight %):	17% at 10°C; 28% at 33.3°C
Boiling Point, C:	Not applicable.
Melting/Freezing point:	Decomposition temperature: >900°C.
pH:	5% solution- 9.8.
Vapor Pressure:	Not Applicable.
Vapor Density (air = 1.0):	Not Applicable.
Evaporation Rate:	Not Applicable.
% Volatiles:	Not Applicable.
Partition Coefficient:	Not Applicable.
Viscosity:	Not Applicable.
Flash Point:	Not Flammable.
Flash Point Method:	Not Applicable.
Autoignition Temperature:	Not Applicable.
Upper Flame Limit:	Not Applicable.
Lower Flame Limit:	Not Applicable.
Decomposition Temperature:	Not Determined.
Flammability (solid, gas):	Not Flammable.
OSHA Flammability Class:	Not Applicable.

10. STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical Stability:	Normally stable.
Possibility of Hazardous Reactions:	Reacts with acids to form toxic and irritating sulfur dioxide gas.
Incompatibility (Materials to Avoid):	Reactive with oxidizing agents, combustible materials, organic materials, acids.
Conditions of Instability:	Avoid elevated temperatures. Temperatures above 900°C cause the rapid evolution of toxic and corrosive sulfur dioxide gas and hazardous residue.
Hazardous Decomposition Products:	Sulphur Dioxide and Sodium Sulfide Residue. Sodium Sulfide is flammable, a dangerous fire risk, a strong irritant to skin and tissue, and is incompatible with acids.

11. TOXOLOGICAL INFORMATION

Potential Health Hazards

Acute Effects of Exposure:

_____Skin:	Repeated or prolonged contact with dust may cause irritation. Contact with solutions will cause skin irritation.
Eyes:	Dust or mist may irritate the eyes. Solutions will irritate or burn.
Inhalation:	Inhalation of dust or mist can irritate the respiratory tract. May cause severe or deadly allergic reactions in some asthmatic and sulfite sensitive individuals. Possible signs and symptoms of allergic reactions include bronchoconstriction, sweating, flushing, hives, rapid heart rate,

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decreased blood pressure, and anaphylaxis. Contact with acids releases sulfur dioxide gas which may be harmful or deadly if inhaled.

Ingestion: May irritate the gastrointestinal tract. May cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous system depression, and even death.

Chronic Effects: None known.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

Ingredient Name	NTP Status	IARC Status	OSHA List
No ingredients listed in this section.	-----	-----	-----

Numerical Measures of Toxicity:**Immediate (Acute) Effects:**

Sodium Sulfite- LD₅₀ (oral, rat) = 2610-6400 mg/k; LC₅₀ (inhalation, rat) > 5.5 mg/L/4 hr.; LC₅₀ (inhalation, rat) >22 mg/L./1 hr.

Sodium Sulfate- LD₅₀ (oral, rat) > 10,000 mg/kg

Delayed (Subchronic and Chronic) Effects:

Sodium sulfite has been demonstrated to be mutagenic in microbial systems; however, it is not mutagenic in studies involving insects and is not considered to present a mutagenic threat to multi-cell organisms.

Other Data:

None

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

The following ecotoxicity data is available for Sodium Sulfite:

Daphnia magna LC ₅₀ 48 hr	440 mg/L
Western Mosquitofish LC ₅₀ 96 hr	460 mg/L
Biological Oxygen Demand (BOD)	0.12 lb/lb, instantaneous

The following ecotoxicity data is available for Sodium Sulfate:

Daphnia magna LC ₅₀ 48 hr	2,564 mg/L
Western Mosquitofish LC ₅₀ 96 hr	3,710 mg/L

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

13. DISPOSAL CONSIDERATIONS**RCRA**

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID Number is: N/A

Other Disposal Considerations: Dispose of in accordance with applicable Federal, State and Local regulations.

The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product such as mixing it with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

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US Department of Transportation (US-DOT): Not regulated.
US-DOT ID Number: Not applicable.
Proper Shipping Name: Not applicable.

For additional information on shipping regulations affecting this material, contact the info number found in Section 1.

15. REGULATORY INFORMATION**Toxic Substances Control Act (TSCA)**

TSCA Inventory Status: All components are listed on TSCA Inventory of Chemical Substances

Other TSCA Issues: None.

SARA Title III/CERCLA

“Reportable Quantities” (RQs) and/or “Threshold Planning Quantities”

Ingredient Name	SARA/CLERCLA RQ (lb)	SARA EHS TPQ (lb)
No ingredients listed in this section.	-----	-----

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee. Many states have more stringent regulations. Report all spills in accordance with local, state and federal regulations.

SECTION 311 HAZARD CLASS: Not hazardous.

SARA 303 TOXIC CHEMICALS: Not available

State Right-To-Know Not available.

California Proposition 65: This product does not contain any ingredients known to the State of California to cause cancer and/or reproductive harm

Additional Regulatory Information: None

WHMIS Classification (Canada): D2B

Foreign Chemical Control Inventory Status: Listed on Canadian DS.; Australian AICS, Philippines PICCS, Chinese IECSC, Japanese MITI, Korean KECL, and EU EINECS.

16. OTHER INFORMATION

Revision Number: 1
Section(s) Revised New
Prepared By: ClorDiSys Solutions, Inc

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