



Safety Data Sheet

Aries 3322

Section 1. Identification

Product Identifier	Aries 3322		
Synonyms	Boiler treatment chemical		
Manufacturer Stock Numbers	N/A		
Recommended use	Boiler water treatment		
Uses advised against	N/A		
Manufacturer Contact			
Address	Aries Chemical Incorporated PO BOX 519 Beaver Falls, NY, 13305		
	Phone	Emergency Phone	Fax
	(315) 346-1489	(800) 535-5053 INFOTRAC	(315) 346-1658
	Email	Website	
	aries@arieschem.com	www.arieschem.com	

Section 2. Hazards Identification

Classification	CORROSIVE TO METALS - Category 1 SENSITIZATION - RESPIRATORY - Category 1
Signal Word	Danger
Pictogram	
Hazard Statements	May be corrosive to metals May cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary Statements	

Response	Absorb spillage to prevent material damage. IF IN EYES: Immediately flush eyes with water for at least 15 minutes. Seek medical attention if irritation persists. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention if symptoms occur. IF ON SKIN (or hair): Remove contaminated clothing and wash off area of contact. Seek medical attention if irritation persists. Wash clothing before reuse. IF SWALLOWED: Do NOT induce vomiting. Rinse mouth with water. Seek immediate medical attention.
Prevention	Do not breathe dust/fume/gas/mist/ vapors/spray. Do not get in eyes, on skin, or on clothing. In case of inadequate ventilation wear respiratory protection. Keep container closed when not in use. Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection.
Storage	Store away from incompatible materials such as oxidizing agents, strong acids, aluminum and steel. Store in a cool, dry, well-ventilated area. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/containers in accordance with local, state and federal regulations.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
7631-90-5	Bisulfite sodium salt	20% - 30%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Eye	Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.

Skin	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if necessary.
Additional Information	*Note to health care provider: Allergic reaction or asthma exacerbation may occur in sulfite-sensitive individuals.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	As appropriate for surrounding fire
Unsuitable Extinguishing Media	None known.
Fire fighting instructions	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Suitable extinguishing media	Cool exposed containers with water spray after extinguishing fire.
Additional Information	Specific hazards arising from the substance or mixture: Thermal decomposition may release oxides of sulfur. Reaction with metals may evolve highly flammable hydrogen gas.

Section 6. Accidental Release Measures

Clean-Up	Wear a self-contained breathing apparatus and appropriate Personal protection. (See Exposure Controls/Personal Protection section.) Dike and absorb spill area with inert material (e.g., dry sand or earth), then place in a DOT approved chemical waste container for disposal. Deactivation materials include lime, limestone, sodium carbonate (soda ash) and sodium bicarbonate (baking soda). After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways.
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Section 7. Handling and Storage

Handling	Wear appropriate PPE when handling, including an approved respirator if mist or vapor levels exceed exposure limits. Do not get in eyes, on skin or clothing. Do not breathe (dust, vapor, mist, gas). Use with adequate ventilation. Remove contaminated clothing and wash before reuse. Wash hands before eating, drinking or smoking. Wash thoroughly after handling. May form flammable hydrogen gas upon contact with metals. Keep the containers closed when not in use. Use corrosion resistant tools and equipment. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Handle in accordance with good industrial hygiene and safety practice.
Storage	Store in a cool, dry, well-ventilated area. Avoid high temperatures and freezing. Store locked up in a tightly closed container. Store in a corrosion-resistant container. Store away from incompatible materials. Emergency eye wash and safety shower should be located nearby.
Additional Information	Incompatible materials: Acids, oxidizers, aluminum, steel

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Bisulfite sodium salt	5 mg/m ³	5 mg/m ³	N/A
Personal Protective Equipment	Goggles, Gloves			
Engineering Controls	Adequate ventilation, eye-wash station and emergency shower.			
Eye protection	Tightly fitting safety goggles.			
Hand/skin protection	Wear chemical resistant gloves and clothing.			
Respiratory protection	Use NIOSH approved respirator in accordance with OSHA respiratory protection requirements is airborne concentrations exceed published exposure limits (29 CFR 1910.134).			

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Pale yellow to pale pink/Clear
Odor	Sulfur
Odor Threshold	No data available.
Solubility	Complete
Partition coefficient Water/n-octanol	No data available.
VOC%	N/A
Viscosity	No data available.
Specific Gravity	N/A
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	No data available.
FP Method	Not applicable.
Ph	5-6
Melting Point	~16 F (8.9 C)
Boiling Point	No data available.
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	No data available.
Flammability	No data available.
Decomposition Temperature	No data available.
Auto-ignition Temperature	No data available.
Vapor Pressure	No data available.
Vapor Density	No data available.

Additional Information Specific gravity: 1.20-1.24

Section 10. Stability and Reactivity

Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	Hazardous polymerization will not occur.
Additional Information	-Conditions to avoid: Extreme temperatures. -Materials to avoid: Strong oxidizers cause vigorous exothermic reactions. Acids release sulfur dioxide gas. Metals such as aluminum and steel. -Hazardous decomposition products: Sulfur dioxide gas (toxic and corrosive) and sodium sulfide residual (flammable, dangerous fire risk, strong irritant to skin and tissue, incompatible with acids)

Section 11. Toxicological Information

Eye contact	May cause irritation with pain, swelling and redness.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	May cause irritation of the upper respiratory passages resulting in coughing or difficulty breathing.
Skin contact	May cause irritation with discomfort or rash, skin burns or ulceration.
Aspiration hazard	No information available.
Sensitization to product	May cause an allergic reaction or delayed hypersensitivity in susceptible individuals.
Carcinogenicity	No components have been identified as carcinogenic by OSHA, NTP or IARC.
Embryotoxicity	No information available.
Mutagenicity	No information available.
Reproductive toxicity	No information available.
Teratogenicity	No information available.
Specific target organ toxicity - single exposure	No information available.
Specific target organ toxicity - repeat exposure	No information available.
Additional Information	Acute toxicity data: -Sodium bisulfite (7631-90-5) LD50/Oral/Rat = 2,000 mg/kg

Section 12. Ecological Information

Bioaccumulative potential	No information available.
Mobility	No information available.
Persistence and degradability	No information available.

Section 13. Disposal

Disposal	Dispose of in accordance with federal, state and local regulations. Do not discharge into sewer or surface water.
RCRA Status	Discarded product, as sold, would be considered an RCRA Hazardous Waste because it exhibits corrosive characteristics (D002: Waste corrosive material).

Section 14. Transport Information

UN Number 2693
UN Proper Shipping Name UN2693, Bisulfites, aqueous solutions, n.o.s. (contains sodium bisulfite), 8, III
DOT Classification Corrosive liquid
Packing Group III

Section 15. Regulatory Information

TSCA The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

SARA Section 313 Hazardous Component(s) subject to reporting under 40 CFR 372(SARA Title III, Sec. 313): None.

California Proposition 65 The following chemicals are recognized by the State of California as carcinogenic: None known.

Additional Information OSHA Hazard Communication Status
Corrosive to metals, Category 1
Respiratory sensitization, Category 1

FEDERAL REGULATIONS
-CERCLA 103 Hazardous Substance List: Sodium bisulfite (7631-90-5), RQ = 5,000 lbs
-SARA Title III Section 311/312 Hazard Categories: Acute-Yes. Chronic-No. Fire-No. Pressure-No. Reactivity-No.

Section 16. Other Information

Revision Date 10/18/2015

Version Number 1

HMIS Health - 2; Flammability - 0; Reactivity - 1

NFPA Health - 2; Flammability - 0; Reactivity - 1

HMIS and NFPA Rating Minimal - 0; Slight - 1; Moderate - 2; Serious - 3; Severe - 4
Scale

Reason for Revision New format in accordance with GHS SDS guidelines.

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