

MATERIAL SAFETY DATA SHEET
Emergency Telephone (262) 251-4977

Section 1 – Company Name and Product Information

Company Name: Alliance Group, Inc.

Address: N114 W18621 Clinton Drive
State: Wisconsin

City: Germantown
Zip Code: 53022

Product name: **Oxytrol S**

Product code: 0143

Chemical Family: Bisulfite Solution

Revised MSDS: 9/5/08
Replaces MSDS: 7/31/91

Section 2 – Hazards Identification

EMERGENCY OVERVIEW: DANGER! CORROSIVE. Harmful or fatal if swallowed. Harmful if inhaled. May cause an allergic reaction to skin, respiratory tract or if swallowed.

Physical State: Liquid.
Color: Clear. Light pink.
Odor: Sharp, pungent odor.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Eyes. Skin. Inhalation. Ingestion.

Target Organs: Eyes. Skin. Respiratory System. Mucous Membranes.

Eyes: May be corrosive to the eyes. Severe irritation and burns may result. Liquid or mist may cause: discomfort. tearing. redness. pain. blurred vision. If left untreated, may cause: burns. corneal damage. blindness.

Skin: May be corrosive to skin. Severe irritation and possible burns may result. Contact may cause: discomfort. rash. redness. swelling. scaling. blistering. allergic reaction in some individuals.

Ingestion: May be corrosive to the digestive tract. Severe irritation and burns may result. Large amounts may cause: nausea. stomach upset. vomiting. diarrhea. abdominal pain. central nervous system depression. violent colic. death. Effects may be delayed. Estimated fatal dose for Sodium Bisulfite is 10 grams.

Inhalation: May be corrosive to the respiratory tract. Severe irritation and burns may result. May irritate or damage: nose. throat. mucous membranes. respiratory tract. May cause: coughing. shortness of breath. allergic reaction in some individuals. Effects may be delayed.

Medical Conditions Aggravated By Exposure To Product: Asthma. Lung disorders. Some individuals are said to be dangerously sensitive to minute amounts of sulfites in foods. Symptoms may include broncho constriction, shock, gastrointestinal disturbances, angio edema, flushing, and tingling sensations. Once allergy develops, future exposures can cause asthma attacks with shortness of breath, wheezing, and cough.

Other: The potential for exposure to sulfur dioxide must always be considered as well, particularly when the solution may become overheated. SULFUR DIOXIDE GIVEN OFF BY THIS PRODUCT HAS BEEN SHOWN TO CAUSE BREATHING DIFFICULTIES IN ASTHMATICS.

Cancer Information: This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, or OSHA

Section 3 – Composition / Hazardous Ingredients

<u>CAS Number</u>	<u>Chemical Component</u>	<u>% by Weight</u>	<u>OSHA Hazard</u>
7631-90-5	Sodium Bisulfite	<50 %	YES

Section 4 – First Aid Measures

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation persists, get medical attention. Wipe off excess. Discard footwear which cannot be decontaminated.

Ingestion: If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Keep airway clean. Give water or milk to dilute.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, administer oxygen. Get medical attention immediately.

Note to Physicians: The decision of whether or not to induce vomiting should be made by a physician.

Section 5 - Fire Fighting Measures

Flash Point: None. Lower Explosion Limit: N.A.
Upper Explosion Limit: N.A.

Extinguishing Media: For fires in area use appropriate media. For example: Water Spray. Dry chemical. Carbon dioxide. Foam.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Cool fire exposed containers with water until fire is out. Do not use solid water streams near ruptured tanks or spills. Neutralize runoff with lime, soda ash, or other suitable neutralizing agent. Run-off from fire control may cause pollution.

Fire and Explosion Hazards: Toxic fumes, gases or vapors may evolve on burning. Sulfur dioxide gas will be released at a rate increasing with temperature.

Hazardous Combustion Products: Toxic vapors. Sulfur oxides. Sulfur dioxide. Sodium sulfide may be formed after dried solution residues are heated. This is an explosive hazard and strongly alkaline in contact with water.

Section 6 – Accidental Release Measures

Steps to be taken in case of spills: Corrosive Material. Evacuate unprotected personnel from area. Maintain adequate ventilation. Use proper safety equipment. Never exceed any occupational exposure limit. Eliminate all sources of ignition. Shut off source of leak if safe to do so. Contain spill, place into drums for proper disposal. Neutralize with an alkali (sodium carbonate, lime, etc). Sulfur dioxide and carbon dioxide may be released during neutralization. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

Section 7 - Handling and Storage

Handling: Avoid contact with eyes, skin, clothing. Use with adequate ventilation. Avoid breathing vapors, mists, or dust. Do not swallow. Do not eat, drink or smoke in work area. Wash thoroughly after handling. Empty containers retain product residues; observe all warnings and precautions listed for the product.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Store away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Keep away from all sources of heat and ignition to prevent decomposition and release of sulfur dioxide gas. Do not freeze. Store above 50°F to avoid crystallization.

Section 8 – Exposure Control / Personal Protection

Exposure Guidelines:

Component	OSHA PEL	OSHA STEL/C	ACGIH TWA	ACGIH STEL/C
Sodium Bisulfite	5 mg/m ³ +	Not Estab.	5 mg/m ³	Not Estab

Note: + Vacated 1989 OSHA PEL(s). Sulfur dioxide gas may be released. The Exposure Limits for Sulfur Dioxide are: 5 ppm-TWA (OSHA); 2 ppm-TWA, 5 ppm-STEL (ACGIH).

Engineering Controls: Local exhaust ventilation, process enclosures, or other engineering controls are imperative when handling or using this product to avoid overexposure. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure, monitoring should be performed regularly.

Eye / Face Protection: Chemical safety goggles. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves. Protective gloves: Impervious. Neoprene. Rubber. Polyvinyl chloride.

Other Protective Equipment: Eye wash station. Safety shower. Rubber boots. Chemical safety shoes.

Respiratory Protection: Maintain adequate ventilation. Local exhaust permissible if misty conditions prevail the Threshold Limits. Do not use in closed or confined space. If recommended exposure limits are exceeded wear NIOSH Approved self-contained breathing apparatus for sulfur dioxide. DO NOT exceed limits established by the respirator manufacturer.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift.

Section 9 – Physical and Chemical Properties.

Physical State: Liquid
Color: Clear. Light pink.
Odor: Sharp, pungent odor
Specific Gravity: 1.18 at 25°C
Solubility in water: Complete
pH: 6.1
Freezing Point: N.D.
% Volatiles: N.D.
Vapor Pressure: N.D.
Vapor Density: N.D.
Autoignition Temperature: No Data

Section 10 – Stability and Reactivity

Stability: Stable under normal conditions.

Conditions To Avoid: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames.

Incompatible Materials: Acids. Mineral acids. Oxidizing agents.

Hazardous Decomposition Products: Sulfur dioxide gas. Sulfur oxides. Toxic vapors.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions. Oxidizing agents may cause exothermic reactions. Acidification will accelerate the release of Sulfur dioxide fumes.

Section 11 – Toxicological Information

LD50 Oral: No data
LD50 Skin: No data
LC50 Inhalation: No data

Section 12 – Ecological Information

Ecotoxicological Information: No data available
Chemical Fate Information: No data available

Section 13 – Disposal Considerations

Hazardous Waste Number: N.A.

Waste disposal methods: Dispose of in accordance with all local, state, and federal regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14 – Transportation Information

Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (contains sodium bisulfite)

Hazard Class: 8

UN Number: UN3264

Packing Group: III

Label required: Corrosive

Reportable Quantity: 5000# (Sodium Bisulfite)

Section 15 – Regulatory Information

U.S. FEDERAL REGULATIONS

TSCA Inventory Status: This product or all components of this product are listed on the Inventory of Chemical Substances.

SARA Title III Section 311/312 Category:

Immediate (Acute) Health Hazard: Y
Delayed (Chronic) Health Hazard: N
Fire Hazard: N
Sudden Release of Pressure Hazard: N
Reactive Hazard: N

SARA Section 302/304/313HAP:

Component	CERCLA RQ	SARA RQ	SARA TPQ	SARA 313	U.S. HAP
Sodium Bisulfite	5000	N.A.	N.A.	NO	NO

CLEAN WATER ACT: This product contains one or more components designated as hazardous substances or toxic pollutants pursuant to the Federal Clean Water Act (40 CFR 116.4 Table A; 40 CFR 401.15) Any unpermitted introduction of this product into a facility stormwater or wastewater discharge may constitute a violation of the Clean Water Act. Facilities must notify the appropriate permitting agency prior to discharge.

U.S. STATE REGULATIONS

CALIFORNIA - The following components are listed under Proposition 65:
Cobalt Sulfate Heptahydrate (CAS# 10026-24-1) < 0.1%

WISCONSIN – The following components are listed as a Wisconsin HAP:
Sodium Bisulfite.

Section 16 –Additional Information

HMIS/NFPA Label Information

	HMIS	NFPA	KEY
Health	2	2	0 = Minimal
Flammability	0	0	1 = Slight
Reactivity	1	1	2 = Moderate
Special Hazard: None			3 = Serious
			4 = Severe

Complies with CFR Title 21 Section 173.310 for boiler water and steam which may contact dairy products.

The above information is believed to be accurate and discloses the known hazards for this product as of this date. Since conditions of use are outside our control it should not be taken as a warranty or representation for which Alliance Group, Inc. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

Date: September 5, 2008 By: P. May