Oxytrol LD

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Oxytrol LD
Common Name: Sodium Bisulfite
SDS Number: 0193
Revision Date: 5/26/2016
Product Use: Water Treatment Compound

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1
Environmental, Hazards to the aquatic environment - Acute, 3
Health, Acute toxicity, 4 Oral

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H318 - Causes serious eye damage
H402 - Harmful to aquatic life
H302 - Harmful if swallowed

GHS Precautionary Statements:

P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P404 - Store in a closed container.
P501 - Dispose of contents/container in accordance with local, regional, and international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Eyes; Ingestion; Inhalation; Skin.
Target Organs: No data available.
Inhalation: Minimal respiratory tract irritation may occur with exposure to a large amount of material.
Skin Contact: May cause irritation.
Eye Contact: May cause irritation.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

*Substance/Mixture: Mixture

Cas#	%	Chemical Name
7757-83-7	**<20%**	**Sodium bisulfite**
8061-51-6	**<10%**	**Lignosulfonic acid, sodium salt**

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
Get immediate medical attention.

Ingestion: If swallowed: Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.

5 FIRE FIGHTING MEASURES

Flammability: Not flammable or combustible.
Flash Point: No data available.
Flash Point Method: No data available.
Burning Rate: No data available.
Autoignition Temp: No data available.
LEL: No data available.
UEL: No data available.

Fire Fighting Methods
Evacuate area of unprotected personal. Wear protective clothing including NIOSH Approved self- contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse vapors.

Extinguishing Media

Suitable: Use extingushing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable fire extinguisher: No data available.

Unusual Fire or Explosion Hazards: Sulfur dioxide gas will be released at a rate increasing with temperature

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions
CORROSIVE MATERIAL. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.
Spill
CORROSIVE MATERIAL. Contain spill, place into drums for disposal. Neutralize with an alkali. Sulfur dioxide and carbon dioxide may be released during neutralization. Soak up with inert absorbent material and dispose of as hazardous waste.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Consider normal working hygiene. Wash thoroughly after handling.

Storage Requirements: CORROSIVE MATERIAL. Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames.

Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Elevated temperatures will increase the corrosion rate of most metals. Store above 50 F to avoid crystallization.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation. Maintain adequate ventilation.

Personal Protective Equipment: Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Component	OSHA PEL	ACGIH TWA/ TLV
Sodium Bisulfite	No data available	5 mg/m3 TWA
Sodium Lignosulfate	No data available	No data available

Sulfur Dioxide gas may be released.
**Exposure Limit for Sulfur Dioxide are: 5ppm - TWA (OSHA); 2ppm TWA; 5ppm-STEL (ACGIH)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear. Dark Brown
Physical State:	Liquid.
Odor:	Sharp, pungent odor.
Odor Threshold:	No data available.
Molecular Formula:	No data available.
Particle Size:	No data available.
Solubility:	Appreciable.
Spec Grav./Density:	1.02 @ 25 C
Softening Point:	No data available.
Viscosity:	No data available.
Percent Volatile:	No data available.
Sat. Vap. Conc.:	No data available.
Boiling Point:	No data available.
Freezing/Melting Pt.:	No data available.
Flammability:	No data available.
Flash Point:	No data available.
Partition Coefficient:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
pH:	4.5
Evap. Rate:	No data available.
Bulk Density:	No data available.
Auto-Ignition Temp:	No data available.
Decomp Temp:	No data available.

Lower Explosion Limits: No data available.
Upper Explosion Limits: No data available.

10 STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Contact with organic material may cause fire and explosions. Contact with water may cause violent reaction with evolution of heat. To dilute: Add products slowly to lukewarm water, not water to product.
Materials to Avoid:	Acids. Mineral acids. Oxidizing agents. Corrosive to some metals.
Hazardous Decomposition:	Sulfur dioxide gas. Sulfur oxides. Toxic vapors.
Hazardous Polymerization:	Will not occur under normal conditions.

11 TOXICOLOGICAL INFORMATION

Toxicity Data:

Eye Effects: Corrosive- Causes severe eye irritation and burns. May cause: blurred vision, redness, pain, conjuctivitis, ulcerations, tissue destruction, permanent eye damage, blindness.
Skin Effects: Corrosive- Causes severe irritation and burns. Concentrated solutions may cause: severe burns, severe necrosis, permanent skin damage. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.
Inhalation Effects: Corrosive- Cause severe irritation and burns. Vapors and mists may damage: mucous membranes, respiratory tract. Vapors or mists may cause: coughing, sore throat, shortness of breath, labored breathing, choking, bronchiospasms, chemical pneumonitis, pulmonary edema, death. Effects may be delayed. Chronic exposure may cause: dental erosions, discoloration of teeth, bronchitis, and bronchial emphysema.
Ingestion Effects: Corrosive- Causes severe irritation and burns. May cause damage to the: mouth, throat, esophagus, stomach, gastrointestinal tract. May cause: pain, vomiting, diarrhea, bleeding, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection, and death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.
Chronic Effects: No data available.

Carcinogenicity: This product does not contain 0.1% or more of the known or potential carcinogen listed in NTP, ISRC, or OSHA.
Mutagenicity: No data available.
Teratogenicity: No data available.
Fertility Effects: No data available.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Bisulfite	Rat: 1420 mg/kg	No data available.	No data available.
Sodium Lignosulfate	No data available.	No data available.	No data available.

12 ECOLOGICAL INFORMATION

Biodegradability No data available.

Ecotoxicity Toxicity to fish:
LC50- Gambusia affnis (Mosquito fish) - 240 mg/L- 96 hr (Sodium Bisulfite)
LC50 - Oncohynchus mykiss (Rainbow Trout) - 7300mg/L- 48hr (Sodium Lignosulfate)

Toxicity to aquatic invertebrates:
EC50- Daphnia magna (Water flea) - 102 mg/L- 4.2 d (Sodium Bisulfite)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13 DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14 TRANSPORT INFORMATION

UN2693, Bisulfites, aqueous solutions, n.o.s., 8, PGIII, (Sodium Bisulfite)

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15 REGULATORY INFORMATION

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.
SARA Title III Section 311/312 Category:

- Immediate(Acute) Health Hazard: Yes
- Delayed (Chronic) Health Hazard: No
- Fire Hazard:No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard:No

SARA Section 302/304/313/HAP:

Component	CERCLA RQ (LBS)	SARA RQ(LBS)	SARA TPQ(LBS)	SARA SEC 313	US EPA HAP
Sodium Bisulfite	5000	No data available.	No data available.	NO	NO

May contain trace components: cobalt sulfate heptahydrate <0.1%

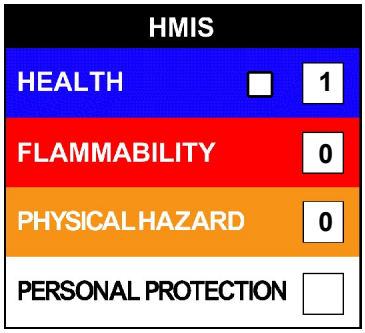
STATE REGULATIONS

California- The following components are listed under Prop 65: No

Wisconsin- The following components are listed as a Wisconsin HAP**:** Sodium Bisulfite

16 OTHER INFORMATION

HMIS III: Health = 1, Fire = 0, Physical Hazard = 0



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

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This information is given in good faith and based on our current knowledge of the product.

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