

Revision: Supersedes:

SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier used on the label

: Flottec Sodium sulfite

Recommended use of the chemical and restrictions on use

: Modifier used in mining industry

: Salt

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

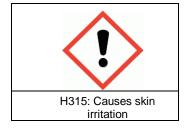
Flottec, LLC

Chemical family

2505 Collingsworth Street, 2nd Floor Houston, TX 77026 U.S.A. www.flottec.com Information Telephone # : 1-713-425-7055 24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.)

2. HAZARDS IDENTIFICATION

Classification of the chemical



Acute toxicity (Category 4) Skin corrosion / irritation (Category 2) Eye injuries (Category 2B) Aquatic toxicity (Category 5) Chronic toxicity (Category 5)

Label elements

Signal Word

Danger

Hazard statement(s)

H315: Causes skin irritation H320: Causes eye irritation

H333: May be harmful if inhaled

Precautionary statement(s)

P260: Do not breathe mist, vapors and spray.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye protection.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water and soap or take a shower if necessary.

P363: Wash contaminated clothing before reuse.

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.
- P310: Immediately call a POISON CENTER or doctor/physician.

P405: Store locked up.

P501: Dispose of contents and container to a licensed chemical disposal agency in accordance with local, regional and national regulations.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Common name	CAS #	Concentration / wt %
Sodium sulfite	7757-83-7	100%

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

4. FIRST-AID MEASURES

Description of first aid measures

Ingestion	: DO NOT induce vomiting, unless recommended by medical personnel. Never give anything by mouth if victim is unconscious or convulsing. If spontaneous vomiting occurs, keep head below hips level to prevent aspiration into the lungs. Seek medical attention or contact a Poison Centre immediately. If victim is conscious wash out mouth with water and give 1-2 glasses of water to drink.
Inhalation	: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.
Skin Contact	: Flush with water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Avoid touching eyes with contaminated body parts. Seek medical attention immediately.
Eye Contact	: IMMEDIATELY flush with plenty of water. Remove contact lenses. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention. Seek medical attention immediately.
Symptoms	: May cause severe eye irritation or eye damage. May cause skin irritation and burns. May cause burns to mouth, throat and stomach.
Notes to the physician	: Treat according to person's condition and specifics of exposure. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Dry chemicals, water spray, chemical foam, carbon dioxide (CO2).

Unsuitable extinguishing media

: Do not use direct water jet.

Special hazards arising from the substance or mixture

: This product is an aqueous solution which does not support combustion unless the water has been evaporated. Emits toxic and corrosive fumes under fire conditions.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must wear self-contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.

Special fire-fighting procedures

: Use water spray to cool fire-exposed containers. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
	: Do not touch spilled material. Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.	
Environmental precautions	: Prevent entry in sewer and other enclosed area. For a large spillage, consult the Department of Environment or the relevant authorities.	
Methods and material for conta	ainment and cleaning up	
	: Ventilate the area well. Stop leak, if it's possible to do so without risk. Absorb with inert material	

(soil, sand, vermiculite) and place in an appropriate waste disposal clearly identified. Finish cleaning by rinsing with water contaminated surface. Dispose via a licensed waste disposal

7. HANDLING AND STORAGE		
Precautions for safe handling	: Handle in a ventilated work place. Do not drink, eat or smoke during handling. Avoid contact with the eyes. The personnel involved with its manipulation must have all the recommended protection elements. An explosion can occur if crushed with nitrates, chlorates, or permanganate, drinking or using toilet articles. Remove contaminated clothing and wash before reuse.	
Conditions for safe storage	: Store tightly close and in properly labelled containers in a cool, dry and well ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store away from acids and from incompatible materials (see section 10). Keep away from direct sunlight and heat.	
Storage temperature	:	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

contractor.

Immediately Dangerous to Life or Health

No immediately dangerous damage to life or health is reported.

Exposure controls

Appropriate engineering cont	rols : Provide sufficient mechanical ventilation (general and/or local exhaust) to keep the airborn
	concentrations of vapors, mists, aerosols or dust below their respective occupational exposure limits.
Respiratory protection	: Respiratory protection is not required in normal use. Respiratory protection equipment (PPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA Standard Z 94.4 and approved by NIOSH / MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit: wear a half mask respirator with appropriate cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with appropriate cartridges and P100 filters.
Skin protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear an apron or long-sleeve protective coverall suit.
Eye / face protection	: Wear chemical splash goggles. If risk of contact with eyes or the face, wear a face shield.
Hands	: Wear nitrile or neoprene gloves. Chemical-resistant, impervious gloves should be worn at all times when handling this chemical product. Before using, user should confirm impermeability. Discard gloves that show tears, pinholes, or signs of wear. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly.
Other protective equipment	: Wear safety shoes. Wear rubber boots to clean up a spill.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Color	: Solid : White or tan to slightly pink	Flash point	: N/Av : N/Av : N/Av
Odor	: Odor less	Sensibility to electrostatic charge	
Odor threshold	: N/Av	Sensibility to sparks/friction	: No
рН	: N/Av	Vapor density (Air = 1)	: N/Av
Melting/Freezing point	: N/Av	Relative density (Water = 1)	: 2.63 kg/L @ 25°C(77°F)
Boiling point/range	: N/Av	Partition coefficient (n-octanol/wat	ter)
Solubility in water	: 79 gr/100ml of water		: N/Av
Evaporation rate (BuAc = 1)	: N/Av	Decomposition temperature : 7	′40 °C
Vapor pressure	: N/Av	Viscosity	: N/Av
Volatiles (% by weight) Flammability (solid, gas)	: No volatil : Not flammable	Molecular mass	: N/Ap



10. STABILITY AND REACTIVITY

Reactivity	: May release hydrogen sulfide in contact with acids.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous react	ions (including polymerizations)
	: Hazardous polymerization will not occur.
Conditions to avoid	: Avoid contact with incompatible materials.
Incompatible materials	: Strong acids, strong bases, strong oxidizing agents (such as nitric acid, perchloric acid, peroxides, chlorates and perchlorates).
Hazardous decomposition pro	oducts

i pi c

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Toxicological data

Chemical name	LC ₅₀	LD ₅₀ / mg/kg	
Chemical hame	(Inhalation, rat)	(Oral, rat) (Dermal, rabbit)	
Sodium sulfite	No disponible	820	No disponible

Likely routes of exposure

Skin	:	Yes
Eye	:	Yes
Inhalation	:	Yes
Ingestion	:	Yes

Potential Health Effects:

Signs and symptoms of delayed, immediate and chronic effects:

Skin	: May cause skin irritation and burns. The family compound is corrosive to rabbit skin, causing edema, erythema, tissue sloughing and necrosis (OECD 404).
Eye	: May cause severe eye irritation or eye damage.
Inhalation	: Inhalation of vapors/mists can cause burns to nose, throat and respiratory tract.
Ingestion	: May cause burns to mouth, throat and stomach.
Sensitization to material	: Ingredients present at levels greater than or equal to 0.1% of this product are skin or respiratory sensitizers.
IRAC/NTP Classification	: No ingredients listed
Carcinogenicity	: Ingredients present at levels greater than or equal to 0.1% of this product are not listed as a carcinogen by IARC, ACGIH, NIOSH, NTP or OSHA.
Mutagenicity	: Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effect.
Reproductive Effects	: Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause effects on reproduction.
Specific target organ effects - s	ingle exposure
	: No target organ is listed.
Specific target organ effects - re	epeated exposure
	: No target organ is listed.
Other information	: The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.



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12. ECOLOGICAL INFORMATION

Ecotoxicity	:		
	Pez -(Pimephales promelas)	LC ₅₀	10,000 mg/L; 96 h)
	Invertebrado acuático - Daphnia magna (estático)	EC_{50}	1.223 mg/L; 48 h
Persistence	: It is not persistent in the environment.		
Degradability	: Chemical oxygen demand (COD): 165 mg / g - can cause a strong chemical consumption of o wastewater.		
Bioaccumulation potential	 Log Ko / w: -3,7 BIOACUMULATION IN FISH - removed from water by biological purification p 	•	
Mobility in soil	: LogKoc: 0.34 HENRY CONSTANT (25 ° C): N	/ A Absor	otion in solid soil particles is not expected.
Other adverse environmental e	ffects		
	: AOX and metal content: Does not contain orga	nic haloge	ens or metals.

13. DISPOSAL CONSIDERATIONS	
Handling for Disposal	: Important! Prevent waste generation. Use in full. DO NOT throw residual to sewer, streams, sewers or drinking water supply. Residues and empty containers must be considered as hazardous waste. Return empty container properly labeled to supplier or everywhere there is a recovery program. Dispose via a licensed waste disposal contractor. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
DOT					
Additional Information		Non-dangerous product according to the criteria of the transport regulations			
TDG					
Additional Information		Non-dangerous product according to the criteria of the transport regulations			
IMO/IMDG					
Additional Information					
ΙΑΤΑ					
Additional Information		Non-dangerous product according to the criteria of the transport regulations			

15 - REGULATORY INFORMATION

US Federal Information:

- Toxic Substance Control Act (TSCA)
- All ingredients are listed in the TSCA Inventory or otherwise comply with TSCA requirements.
- EPCRA Section 313 Toxic Chemicals:
- Sodium hydroxide (CAS no 1310-73-2).
- CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): Sodium hydroxide (CAS no 1310-73-2).
- EPCRA Section 302/304 Extremely Hazardous Substances: No material is listed.
- Clean Water Act (CWA) 311 Hazardous Substances: Sodium hydroxide (CAS no 1310-73-2).
- Clean Water Act (CWA) Priority Pollutants:
- No material is listed.
- Clean Air Act (CAA) 111:

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No material is listed.

- Clean Air Act (CAA 112b) HON Hazardous Organic National Emission Air Pollutants: No material is listed.
- Clean Air Act (CAA 112b) HAP Hazardous Air Pollutants:
- No material is listed. - CAA 112(r) Regulated Chemicals for Accidental Release Prevention: No material is listed.
- California Proposition 65:
- No material is listed.

Canadian Information:

- Canada DSL and NDSL:
- All ingredients are listed in the Domestic Substances List (DSL).
- Canadian National Pollutant Release Inventory Substances (NPRI): No material is listed.

16. OTHER INFORMATION

Other special considerations for handling : Provide adequate information, instruction and training for operators.

Prepared by: Flottec, LLC

Revised by:

REASON FOR REVISION:

DISCLAIMER

The above information is believed to be accurate and represents the best information currently available to us. However, we make no warrantee of merchantability or any other warrant, expressed or implied, with respect to such information, and we assume no I iability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular uses.

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