

Product name Sodium Bisulfate

Revision date 5-21-15

Section 1 Identification

Product ID: Sodium Bisulfate

Synonyms: Sodium bisulfate, anhydrous.

Nitre cake, GBS, Sodium hydrogen sulphate

Product Use: To Reduce pH

Supplier: Oreq Corporation

42306 Remington Ave. Temecula, CA 92590

951-296-5076

Emergency Phone# CHEMTREC, U.S.: 1-800-424-9300

Section 2 Hazards identification

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the

substance or mixture:

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements Hazard pictograms:



Signal word: Danger

Hazard statements: H318 - Causes serious eye damage.

Precautionary statements

Prevention : P280 - Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

Response: P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage: Not applicable.

Disposal: Not applicable.

Hazards not otherwise

Classified : None known.

Section 3 Composition / Information on ingredients

United States - Mexico

Name	%	CAS number
Sodium bisulfate	>90	7681-38-1



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Section 4 First - aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. If redness or irritation persists, get prompt medical attention.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

If irritation or discomfort persists, seek medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 20 minutes.

If skin irritation occurs, seek medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an unconscious person. Call

medical doctor or poison control center immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation: Inhalation of dust may irritate nose, throat and/or lungs.

Skin contact: Prolonged exposure may cause skin irritation.

Ingestion: Small amounts (tablespoonful) swallowed are not likely to cause injury; however,

swallowing large amounts may irritate or burn digestive tract.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation :No known significant effects or critical hazards.

Skin contact :Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur if repeated exposure

Ingestion :Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)



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Section 5 Fire - fighting measures

Extinguishing media Suitable Extinguishing

Media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinquishing

Media

: None known.

Specific hazards arising

from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

Sulfur oxides

Special protective actions

for fire-fighters

: No special measures are required.

Special protective equipment

for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information inSection 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small Spill: Vacuum or sweep up material and place in a designated, labeled waste container.

Dispose of via a licensed waste disposal contractor.

Large Spill : Prevent entry into sewers, water courses, basements or confined areas. Vacuum

or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.



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Section 7 Handling and storage

Precautions for safe handling

Protective measures :Put on appropriate personal protective equipment (see Section 8). Avoid breathing

dusts. Wash thoroughly after handling.

Advice on general Occupational hygiene

:Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene

measures.

Conditions for safe storage, Including any incompatibilities

:Material is hygroscopic and will readily absorb moisture. DO NOT store dry product

where exposed to moist conditions. Keep container tightly closed.

Section 8 Exposure controls / personal protection

Control parameters

Occupational exposure limits

None Mexico None

Appropriate engineering

controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures,local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation

location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the

working period.

Eye/face protection : Safety eyewear should be used when there is a likelihood of exposure.

Recommended: Safety glasses with side shields.

Skin protection

Hand protection: Use gloves appropriate for work or task being performed. Recommended: Rubber

gloves.

Body protection : Cotton-blend coveralls

Other skin protection :Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection: In dusty atmospheres (>10 mg/m³), use a NIOSH-approved dust respirator.



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Section 9 Physical and chemical properties

Appearance

Physical state : Dry (Anhydrous) crystalline solid spherical shape beads.

Color : Off-white.

Odor : Fresh to pungent.
Odor Threshold : Not available

pH : <1 [Conc. (% w/w): 5%]

Boiling point : Not available.
Flash point : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.

Relative density :1.28

Solubility : Partially soluble in the following materials: cold water and hot water.

Viscosity : Not available.
Volatility : Not available.

Section 10 Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : DO NOT store dry product where exposed to moist conditions.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials, acids

and alkalis. DO NOT MIX dry or concentrated solutions of this product with concentrated solutions of chlorine bleach, ammonia cleansers or similar products.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11 Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium bisulfate	LD50 Oral	Rat	2800 mg/kg	-

<u>Irritation/Corrosion</u> - There is no data available

<u>Sensitization -</u> There is no data available

<u>Carcinogenicity -</u> There is no data available



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Section 11 Toxicological information (Continued)

Specific target organ toxicity (single exposure) - There is no data available

Specific target organ toxicity (repeated exposure) - There is no data available

Aspiration hazard - There is no data available

Information on the likely: Dermal contact. Eye contact. Inhalation. Ingestion.

routes of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation: Inhalation of dust may irritate nose, throat and/or lungs.

Skin contact: Prolonged exposure may cause skin irritation.

Ingestion : Small amounts (tablespoonful) swallowed are not likely to cause injury; however,

swallowing large amounts may irritate or burn digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation :No known significant effects or critical hazards.

Skin contact :Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur if repeated exposure

Ingestion :Adverse symptoms may include the following:

stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards

Potential chronic health effects

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.

No known significant effects or critical hazards.



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Fertility effects : No known significant effects or critical hazards.

Acute toxicity estimates

Route	ATE value
Oral	3080.3 mg/kg

Section 12 Ecological information

<u>Toxicity</u>

: There is no data available. : There is no data available.

Persistence and degradability
Bioaccumulative potential

: There is no data available.

Mobility in soil
Soil/water partition
coefficient (Koc)

: There is no data available.

Other adverse effects

: This product readily dissolves in water to form a weak acid solution. A 0.05 percent or greater (by weight) solution of this product will likely be acutely harmful to aquatic life.

Section 13 Disposal considerations

Disposal Methods

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Section 14 Transport information

	DOT/MEX Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper	-	-	-
Shipping name			
Transport	-	-	-
Hazard class			
Packing group	-	-	-
Environmental	No	No	No
hazards			
Additional	-	-	-
information			

Special precautions for user

:Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Section 15 Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR ExemptPartial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.



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Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not Listed

Clean Air Act Section 602

Class I Substances

: Not Listed

Clean Air Act Section 602

Class II Substances

: Not Listed

DEA List I Chemicals

(Precursor Chemicals)

: Not Listed

DEA List II Chemicals (Essential Chemicals)

: Not Listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ: :Not applicable

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire Hazard	Sudden Release of Pressure	Reactive	Immediate (acute) Health hazard	Delayed (chronic) Health hazard
Sodium Bisulfate	>90	No.	No.	No.	Yes.	No.

State regulations

Massachusetts: None of the components are listed.New York: None of the components are listed.New Jersey: None of the components are listed.Pennsylvania: None of the components are listed.

California Prop. 65

No products were found.

Mexico

Classification:HealthFlammabilityReactivity100

Section 16 Other information

DATE OF PREPARATION 5-21-2015

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