



# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2021

Date Updated: November 05, 2021

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

Product Name Sodium bisulfite  
 Product Code(s) SB0834  
 Recommended Use For Laboratory Research Use Only  
 Not for Human or Animal Drug Use

Supplier Bio Basic Inc.  
 Address 20 Konrad Crescent, Markham, Ontario,  
 Canada, L3R 8T4  
 Telephone (905) 474 4493  
 Fax (905) 474 5794  
 For Chemical Emergency Phone# (416) 995 9730

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

### GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Acute toxicity, Oral (Category 4), H302  
 Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

### GHS Label elements, including precautionary statements

Pictogram



Signal word Warning  
 Hazard statement(s)  
 H302 Harmful if swallowed.  
 H402 Harmful to aquatic life.

Precautionary statement(s)  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazards not otherwise classified (HNOC) or not covered by GHS

Contact with acids liberates toxic gas.

- none

## SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	CAS-No	Weight %
Sodium bisulfite	231-548-0	7631-90-5	95-100

#### SECTION 4. ----- FIRST-AID MEASURES-----

##### **General advice**

Show this material safety data sheet to the doctor in attendance.

##### **If inhaled**

After inhalation: fresh air.

##### **In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

##### **In case of eye contact**

After eye contact: rinse out with plenty of water. Remove contact lenses.

##### **If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

##### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

##### **Indication of any immediate medical attention and special treatment needed**

No data available

#### SECTION 5. ----- FIRE FIGHTING MEASURES -----

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

##### **Special hazards arising from the substance or mixture**

Sulfur oxides Sodium  
oxides Not  
combustible.

Ambient fire may liberate hazardous vapours.

##### **Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

##### **Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

##### **Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

##### **Environmental precautions**

Do not let product enter drains.

##### **Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

##### **Reference to other sections**

For disposal see section 13.

**SECTION 7. ----- HANDLING AND STORAGE-----**

**Precautions for safe handling**

For precautions see section 2.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions**

Tightly closed. Dry.

Do not store near acids.

Air and moisture sensitive.

Storage class (TRGS 510): 13: Non Combustible Solids

**Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated

**SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION-----**

**Control parameters**

**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
sodium hydrogensulphite	7631-90-5	TWAEV	5 mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	5 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWA	5 mg/m <sup>3</sup>	Canada. British Columbia OEL
		TWA	5 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)

**Exposure controls**

**Appropriate engineering controls**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

**Personal protective equipment**

**Eye/face protection**

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

**Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm Break  
through time: 480 min Material tested:KCL 741  
Dermatril® L

Splash contact Material:  
Nitrile rubber  
Minimum layer thickness: 0.11 mm Break  
through time: 480 min Material tested:KCL 741  
Dermatril® L

**Body Protection**  
protective clothing

**Respiratory protection**  
required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

**Control of environmental exposure**  
Do not let product enter drains.

## SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

### Appearance

Form	Solid
Colour	No data available

### Safety data

pH	No data available
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Ignition temperature	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Relative vapour density	No data available
Odour	No data available
Odour Threshold	No data available
Evaporation rate	No data available

## SECTION 10. -----STABILITY AND REACTIVITY -----

### **Reactivity**

Contact with acids liberates toxic gas.

### **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

### **Possibility of hazardous reactions**

Generates dangerous gases or fumes in contact with: Acids

### **Conditions to avoid no**

information available

### **Incompatible materials**

Strong oxidizing agents, Strong acids

### **Hazardous decomposition products**

In the event of fire: see section 5

## SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

### **Acute toxicity**

Oral: No data available

LD50 Oral - Rat - male and female - 1,540 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5.5 mg/l (OECD Test Guideline 403)

Dermal: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

No data available

### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation (OECD Test Guideline 404)

### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

### **Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)

### **Germ cell mutagenicity**

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Species: Rat

Result: negative  
Remarks: (ECHA)

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

Repeated dose toxicity - Rat - male and female - Oral Remarks:  
(ECHA)

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, chest pain To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12. ----- ECOLOGICAL INFORMATION -----****12.1 Toxicity**

Toxicity to fish static test LC50 - Leuciscus idus (Golden orfe) - > 215 - < 464 mg/l  
- 96 h

Remarks: (ECHA)

Toxicity to daphnia static test EC50 - Daphnia magna (Water flea) - 89 mg/l - 48 h  
and other aquatic invertebrates  
Remarks: (ECHA)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 43.8  
mg/l - 72 h  
(OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - > 1,000 mg/l - 3 h  
(OECD Test Guideline 209)

**Persistence and degradability**

Not applicable for inorganic substances

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----****Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

**TDG (Canada)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15. ----- REGULATORY INFORMATION -----**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**SECTION 16. ----- OTHER INFORMATION -----**

Further information: no limited for paper copy, just for internal uses.  
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**Issuing Date:** 05-Nov-2021

**End of SDS**