



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: [wbcil@wbcil.com](mailto:wbcil@wbcil.com)

Website: [www.wbcil.com](http://www.wbcil.com)

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Sodium Butyrate (Food Grade)

**Product Code:** SOBFO98

**Company Identification:**

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## Section 2 - Composition / Information on Ingredients

<b>Chemical Name</b>	:	Sodium Butyrate
<b>CAS Number</b>	:	156-54-7
<b>Molecular Formula</b>	:	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> COONa
<b>Molecular Weight</b>	:	110.09 g/mol
<b>EC #</b>	:	205-857-6

## Section 3 - Hazards Identification

**GHS, Globally Harmonized System Classification of the substance**

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3

Germ cell mutagenicity Category 2

**Labeling according to GHS**

GHS Label Elements

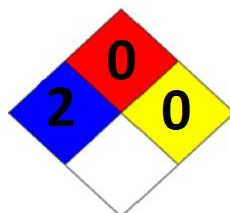


Health Hazard

GHS Label Elements



Irritant



NFPA SCALE (0-4)

Health	2
Flammability	0
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)



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**GHS Signal Word: Warning**

**GHS Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

**GHS Precautionary statements:**

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash ... thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332+313: If skin irritation occurs: Get medical advice/attention.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

P337+313: If eye irritation persists get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification according to EU:**

Xn Harmful

R36/37/38, R68

### Section 4 - First Aid Measures

<b>Inhalation</b>	:	If Sodium Butyrate is inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	:	Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Skin Contact:</b>	:	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water maybe used. Wash clothing & Shoes before reuse. Get medical attention.
<b>Eye Contact</b>	:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.



### Section 5 - Fire-Fighting Measures

<b>Fire:</b>	:	Sodium Butyrate is not expected to be a fire hazard.
<b>Explosion:</b>	:	No information found.
<b>Fire Extinguishing Media:</b>	:	Use any means suitable for extinguishing surrounding fire.
<b>Special Information</b>	:	In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

### Section 6 - Accidental Release Measures

<b>Small Spill</b>	:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to legal requirements.
<b>Large Spill</b>	:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water.

### Section 7 - Handling and Storage

Keep Sodium Butyrate in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of Sodium Butyrate may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

### Section 8 - Exposure Controls / Personal Protection

<b>Airborne Exposure Limits</b>	:	None established.
<b>Ventilation System</b>	:	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
<b>Personal Respirators (NIOSH Approved)</b>	:	For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. <b>WARNING:</b> Air purifying respirators do not protect workers in oxygen-deficient atmospheres.



<b>Skin Protection</b>	:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Eye Protection</b>	:	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9 - Physical and Chemical Properties

<b>Appearance Form</b>	:	Free flowing powder, with occasional friable lump.
<b>Color</b>	:	White.
<b>pH of 10% solution in water</b>	:	7.0-11.0
<b>Melting point</b>	:	No data available.
<b>Boiling point</b>	:	No data available.
<b>Flash point</b>	:	No data available.
<b>Ignition Temperature</b>	:	No data available.
<b>Lower explosion limit</b>	:	No data available.
<b>Upper explosion limit</b>	:	No data available.
<b>Water solubility</b>	:	Soluble in water.

## Section 10 - Stability and Reactivity

<b>Chemical stability</b>
The product is stable under normal conditions.
<b>Conditions to avoid</b>
Exposure to moisture may affect product quality.
<b>Materials to avoid</b>
Strong oxidizing agents.
<b>Hazardous decomposition products</b>
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides.



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### Section 11 - Toxicological Information

<b>Carcinogenic Effects</b>	:	Not a reported carcinogen by IARC NTP ACGIH OSHA.
<b>Teratogenic Effects:</b>	:	Not available.
<b>Developmental Toxicity:</b>	:	Not available.
<b>Acute Toxicity</b>	:	Oral LD50 (Rat): 2,000 - 3,200 mg/kg.
<b>Chronic Toxicity</b>	:	NOAEL (Rat, Oral): ~500 mg/kg/day.

### Section 12 - Ecological Information

<b>Toxicity</b>		
<b>Toxicity to fish</b>	:	LC50 - Lepomis macrochirus - 5.000 mg / l - 24 hr.
<b>Toxicity to daphnia and other aquatic invertebrates.</b>	:	EC50 - Daphnia magna (Water flea) - 1.950 mg / l – 24 hr
<b>Results of PBT and vPvB assessment</b>	:	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.


### Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



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## Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material
Air transport Goods	:	Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport	:	Not applicable
IATA Specification	:	Non-dangerous, non-hazardous
<b>DOT (Pictograms)</b> AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED. NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED. THIS IS NOT REGULATED AS PER IATA REGULATION		

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

## Section 16 - Other Information

**Disclaimer:** This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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**Revision No.: 03**