

Page: 1

Revision: 09/09/2013 Supersedes Revision: 06/10/2010

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Information:





Section 1. Identification of the Substance/Mixture and of the

Product Code: 13121

> **Product Name:** Sodium Butyrate

Synonyms: butanoic acid, sodium salt; Butyric Acid;

Relevant identified uses of the substance or mixture and uses advised against 1.2

Relevant identified uses: For research use only, not for human or veterinary use.

Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300 **Alternate Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887

Cayman Chemical Company

Web site address: www.caymanchem.com

Section 2. Hazards Identification

GHS Classification	Placard	Key word	GHS hazard phrase
Skin Corrosion/Irritation, Category 2	Exclamation	Warning	Causes skin irritation
	point		
Serious Eye Damage/Eye Irritation, Category	Exclamation	Warning	Causes serious eye irritation
2A	point		
Germ Cell Mutagenicity, Category 2	Health hazard	Warning	Suspected of causing genetic defects
Target Organ Systemic Toxicity (single	Exclamation	Warning	May cause respiratory irritation,or may cause drowsiness
exposure), Category 3	point		and dizziness

GHS Hazard Phrases: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H341: Suspected of causing genetic defects. H335: May cause respiratory irritation.

GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling.

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

P362+364: Take off contaminated clothing and wash it before reuse.

P201: Obtain special instructions before use.

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

P281: Use personal protective equipment as required. P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.

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

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention. P308+313: IF exposed or concerned: Get medical attention/advice.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.



Revision: 09/09/2013 Supersedes Revision: 06/10/2010

Adverse Human Health Effects and

Causes skin irritation.

Symptoms:

Causes serious eye irritation.

Material is irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause respiratory irritation. Suspected of causing genetic defects.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Target Organs: Blood.

Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3. Composition/Information on Ingredients					
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #
Sodium butyrate	156-54-7	100.0 %	205-857-6	R36/37/38	ET6400000

Section 4. First Aid Measures

4.1 **Description of First Aid Measures:**

In Case of Inhalation: 4.1.1 Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Effects,

Both Acute and Delayed:

Exposure can cause: burning sensation, coughing, wheezing, laryngitis, shortness of breath,

headache, nausea, and vomiting.

Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, pneumonitis,

and pulmonary edema.

Indication of any immediate medical attention and special treatment needed:

No data available.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

> Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

Protective Precautions, Protective 6.1 Avoid raising and breathing dust, and provide adequate ventilation.

Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).



SAFETY DATA SHEET

Sodium Butyrate

Revision: 09/09/2013

Page: 3

Supersedes Revision: 06/10/2010

Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

6.3 **Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Other Precautions: Hygroscopic.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

Exposure Controls/Personal Protection Section 8. **Hazardous Components (Chemical Name)** CAS# **OSHA PEL ACGIH TLV** Other Limits Sodium butyrate 156-54-7 No data. No data. No data. **Hazardous Components (Chemical Name)** CAS# **Britain EH40** France VL Europe Sodium butyrate 156-54-7 No data. No data. No data.

Protective Equipment Summary - Hazard

Label Information:

Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety

Vent Hood Safety shower in work area

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

8.2.2.1 Eye Protection: Safety glasses

8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing:

8.2.2.3 Respiratory Equipment (Specify

Specific Gravity (Water = 1):

Solubility in Water:

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a

safety shower.

Wash thoroughly after handling.

8.2.3 **Environmental Exposure Controls:** No data available.

Physical and Chemical Properties Section 9

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9.1 Information on Basic Ph	ysical and Chemical Pro	perties	
Physical States:	[] Gas	[] Liquid	[X] Solid
Appearance and Odor:	A crystal	line solid	
Melting Point:	No data.		
Boiling Point:	No data.		
Flash Pt:	No data.		
Evaporation Rate:	No data.		
Vapor Pressure (vs. Air or mm	Hg): No data.		
Vapor Density (vs. Air = 1):	No data.		

Solubility Notes: ~10 mg/ml in PBS (pH 7.2); ~5 mg/ml in EtOH;

No data.

No data.



Page: 4

Revision: 09/09/2013

Supersedes Revision: 06/10/2010

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

Molecular Weight:

Percent Volatile: No data. Formula: $C4H8O2 \cdot Na$

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stability Note(s): No data available.10.4 Conditions To Avoid: No data available.

10.3 Polymerization: Will occur [] Will not occur [X]

10.5 Incompatibility - Materials To Avoid: strong oxidizing agents

 10.6 Hazardous Decomposition Or
 carbon dioxide

 Byproducts:
 carbon monoxide

sodium oxides

111.10

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

Hazardous Components (Chemical Name)CAS #NTPIARCACGIHOSHA1. Sodium butyrate156-54-7n.a.n.a.n.a.n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

DOT Proper Shipping NameNot dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

European Community Hazard Symbol codes Xi: Irritant

European Community Risk and Safety Phrases

R36/37/38 - Irritating to eyes, respiratory system and skin.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



Page: 5

Revision: 09/09/2013

Supersedes Revision: 06/10/2010

- Wear suitable gloves and eye/face protection.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Sodium butyrate	156-54-7	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
Sodium butyrate	156-54-7	No	No	Inventory	No

Regulatory Information Statement: This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European

Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date: 09/09/2013

Company Policy or Disclaimer

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required