

## SODIUM BUTYRATE EFFECTIVE DATE: 2015-11-20

# 1 Product and Company Identification

1.1 Product Name: Sodium Butyrate1.2 Product Identifier: sodium butyrate

**1.3 Catalog Number:** 72242

**1.4 Product Use:** Laboratory Chemical

**1.5 Manufacturer/Supplier:** STEMCELL Technologies

Suite 500-1618 Station Street

Vancouver, British Columbia V6A 1B6 Canada

**1.6** In Case of Emergency Call: 1-800-667-0322

## 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Germ Cell Mutagenicity, Category 2

Target Organ Systemic Toxicity (single exposure), Category 3

#### 2.2 Label elements

# **Pictogram**



## Signal word Warning

#### Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

# Precautionary statement(s)

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}.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P332+313 If skin irritation occurs, get medical advice/attention.

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P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact 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.
2.3 Other hazards	No data available

# 3 Composition / Information on Ingredients

#### 3.1 Substances

**Synonyms** Butanoic acid; Butyric acid, sodium salt

Molecular formula $C_4H_7O_2 \cdot Na$ Molecular weight110.1

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#
Sodium Butyrate	156-54-7	100%	205-857-6

# 4 First Aid Measures

#### 4.1 Description of first aid measures

#### 4.1.1 If inhaled

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

### 4.1.2 In case of skin contact

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

### 4.1.3 In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

#### 4.1.4 If swallowed

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 Most 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.

The toxicological properties of this product have not been fully evaluated.

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

No data available

# 5 Fire Fighting Measures

#### 5.1 Extinguishing Media

## 5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

# 5.1.2 Unsuitable Extinguishing Media

A solid water stream may be inefficient.

## 5.2 Special hazards arising from the substance or mixture

# 5.2.1 Flammable Properties and Hazards

No data available

#### 5.2.2 Flash Pt

No data available

### 5.2.3 Autoignition Pt

No data available

#### 5.2.4 Explosive Limits

LEL: No data available

UEL: No data available

#### 5.2.5 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.

## 6 Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved (or equivalent) self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

#### 6.2 Environmental precautions

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

# 6.3 Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

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# 7 Handling and Storage

#### 7.1 Precautions for safe handling

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Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

#### 7.2 Conditions for safe storage

Keep container tightly closed.

Store in accordance with information listed on the product insert.

# 8 Exposure Controls/Personal Protection

## 8.1 Exposure limits

Component	CAS#	Value	Control parameters
Sodium Butyrate	156-54-7	No data available	No data available

## 8.2 Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## 8.3 Personal protective equipment

### 8.3.1 Eye/face protection

Safety glasses

#### 8.3.2 Skin protection

Compatible chemical-resistant gloves

Lab coat

#### 8.3.3 Respiratory protection

NIOSH (US) or CEN (EU) approved respirator, as conditions warrant.

## 8.3.4 General hygiene considerations

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.

## 8.3.5 Environmental exposure controls

No data available

## 9 Physical and Chemical Properties

# 9.1 Information on basic physical and chemical properties

**Appearance** A crystalline solid Odour No data available Odour threshold No data available Ηq No data available Melting point/freezing point No data available Boiling point/boiling range No data available Flash point No data available Evaporation rate No data available

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## SODIUM BUTYRATE EFFECTIVE DATE: 2015-11-20

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Vapour pressure

Vapour density

No data available

Solubility ~10 mg/mL in PBS (pH 7.2); ~5 mg/mL in EtOH

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

No data available

No data available

# 10 Stability and Reactivity

**10.1 Reactivity** No data available

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions No data available10.4 Conditions to avoid No data available

**10.5** Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide

Carbon monoxide Sodium oxides

## 11 Toxicological Information

#### 11.1 Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available Other: No data available

#### 11.2 Skin corrosion/irritation

No data available

#### 11.3 Serious eye damage/eye irritation

No data available

## 11.4 Respiratory and/or skin sensitization

No data available

# 11.5 Germ cell mutagenicity

No data available

#### 11.6 Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

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NTP: No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

11.7 Reproductive toxicity

No data available

11.8 Specific target organ toxicity - single exposure

No data available

11.9 Specific target organ toxicity - repeated exposure

No data available

11.10 Aspiration hazard

No data available

11.11 Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

11.12 Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

**11.13 RTECS #** ET6400000

12 Ecological Information

**12.1 Toxicity** Avoid release into the environment.

Runoff from fire control or dilution water may cause

pollution.

**12.2 Persistence and degradability** No data available

**12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available

**12.5 Other adverse effects** No data available

#### 13 Disposal Considerations

#### 13.1 Waste disposal method

Dispose in accordance with local, provincial/state, and federal regulations.

## 13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

**14.1 UN number** No data available

**14.2 UN proper shipping name** DOT Not dangerous goods

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ADR/RID Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 14.6 Special precautions
 No data available
 No data available

# 15 Regulatory Information

#### 15.1 US EPA SARA Title III

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

#### 15.2 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

## 15.3 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

# 15.4 Canada

WHMIS Classification: D2B Toxic Material Causing Other Toxic Effects

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and

WHMIS 2015.

#### 16 Other Information

**16.1 Prepared by:** Quality Control, STEMCELL Technologies Inc.

**16.2 Revision:** 1

**16.3 Notice:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to

amendment by STEMCELL Technologies Inc.

16.4 Disclaimer: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR

HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

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