# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/24/2008 Print Date 03/21/2011

Product name	: ( <i>S</i> )-(+)-3-Hydı	oxybutyric acid sodium	n salt	
Product Number	: 54964	: 54964		
Brand	: Fluka			
Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103			
Telephone	USA : +18003255832			
Fax	: +18003255052			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORM	ATION ON INGREDIENTS	5		
Formula	: C4H7NaO3			
Molecular Weight	: 126.09 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	]
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## If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

# 5. FIRE-FIGHTING MEASURES

## Flammable properties

Flash point no data available

Ignition temperature no data available

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Avoid dust formation.

**Environmental precautions** Do not let product enter drains.

#### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

hygroscopic Store under inert gas. strongly hygroscopic

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

## Eye protection Safety glasses

**Hygiene measures** General industrial hygiene practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	solid
Colour	white
Safety data	
рН	no data available
Melting point	149 - 153 °C (300 - 307 °F) 149 - 153 °C (300 - 307 °F)
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Storage stability

Stable under recommended storage conditions.

# Materials to avoid

Strong oxidizing agents

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium/sodium oxides

## **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

no data available

#### Irritation and corrosion

no data available

## Sensitisation

no data available

## **Chronic exposure**

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.

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.

## Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

## **12. ECOLOGICAL INFORMATION**

## Elimination information (persistence and degradability)

no data available

#### **Ecotoxicity effects**

no data available

#### Further information on ecology

no data available

# **13. DISPOSAL CONSIDERATIONS**

#### Product

Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

IATA Not dangerous goods

## **15. REGULATORY INFORMATION**

# OSHA Hazards

No known OSHA hazards

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists. CAS-No.

(S)-3-Hydroxybutyric acid sodium salt

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

127604-16-4

## SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

No SARA Hazards

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know Components

(S)-3-Hydroxybutyric acid sodium salt	CAS-No. 127604-16-4	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
(S)-3-Hydroxybutyric acid sodium salt	127604-16-4	

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#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# **16. OTHER INFORMATION**

#### **Further information**

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