# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.1 Revision Date 01/06/2009 Print Date 09/09/2011

Health Hazard:       0         Flammability:       0         Physical hazards:       0         NFPA Rating       0         Health Hazard:       0         Fire:       0         Reactivity Hazard:       0         Potential Health Effects       0         Inhalation       May be harmful if inhaled. May cause respiratory tract irritation.         Skin       May be harmful if absorbed through skin. May cause skin irritation.         May cause eye irritation.       May cause eye irritation.					
Product Number       E1106         Brand       Sigma         Company       Sigma         Telephone       +1800-325-5832         Fax       +1800-325-5052         Emergency Phone #       (314) 776-6555         OMPOSITION/INFORMATION ON INGREDIENTS         Synonyms       : (3)-(+)-2-(4-lsobutylphenyl)propionic acid (S)-(+)-4-lsobutyl-or-methylphenylacetic acid         Formula       : C1_3H1gO2         Molecular Weight       : 206.28 g/mol         CAS-No.       [EC-No.       Index-No.         CAS-No.       [EC-No.       Index-No.         CAS-No.       [EC-No.       Index-No.         Concentration       (+)-2-(4-lsobutylphenyl)-propanoic acid         [51146-56-6       -       -         AZARDS IDENTIFICATION       Emergency Overview         OSHA Hazards       O         No known OSHA hazards       O <th>RODUCT AND COMPA</th> <th>NY IDENTIFICATION</th> <th></th> <th></th> <th></th>	RODUCT AND COMPA	NY IDENTIFICATION			
Product Number I: 106 Brand I: Sigma Company I: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA Telephone I: +1 800-325-5832 Fax I: 1800-325-5052 Emergency Phone # I: (314) 776-6555 OMPOSITION/INFORMATION ON INGREDIENTS Synonyms I: (S)-(+)-2-(4-lsobuty/lphenyl)propionic acid (S)-(+)-4-lsobuty/-o-methylphenylacetic acid Formula I: C13H18O2 Molecular Weight I: 206.28 g/mol CAS-No. EC-No. Index-No. Concentration S(+)-2-(4-lsobutyl)-propanoic acid (51146-56-6 AZARDS IDENTIFICATION Emergency Overview OSHA Hazards No known OSHA hazards MMIS Classification Health Hazard: 0 Fire: 0 Reactivity Hazard:	Product name	: (S)-(+)-lbuprofen			
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Company : Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA Telephone : + 1 800-325-5832 Fax : + 1 800-325-5052 Emergency Phone # : (314) 776-6355 OMPOSITION/INFORMATION ON INGREDIENTS Synonyms : (S)-(+)-2-(4-Isobutylpenyl)propionic acid (S)-(+)-4-Isobutyl-c-methylphenylacetic acid Formula : C13H1802 Molecular Weight : 206.28 g/mol CAS-No. EC-No. Index-No. Concentration S(+)-2-(4-Isobutylphenyl)-propanoic acid 51146-56-6 AZARDS IDENTIFICATION Emergency Overview OSHA Hazards No known OSHA hazards NFPA Rating Health Hazard: 0 Fire: 0 Reactivity Hazard: 0 Protential Health Effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Eyes May cause eye irritation.					
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www.sigma-aldrich.com			-		

Ingestion	May be harmful if swallowed.			
4. FIRST AID MEASURES				
<b>If inhaled</b> If breathed in, move per	son into fresh air. If not breathing give artificial respiration			
In case of skin contact Wash off with soap and				
In case of eye contact Flush eyes with water a				
If swallowed Never give anything by	mouth to an unconscious person. Rinse mouth with water.			
5. FIRE-FIGHTING MEASUR	RES			
Flammable properties Flash point	> 113.00 °C (> 235.40 °F) - closed cup			
Ignition temperature <b>Suitable extinguishing</b> Use water spray, alcoho				
Special protective equ	athing apparatus for fire fighting if necessary.			
6. ACCIDENTAL RELEASE	MEASURES			
<b>Personal precautions</b> Avoid dust formation.				
Environmental precau Do not let product enter				
Methods for cleaning of Sweep up and shovel. K	up Keep in suitable, closed containers for disposal.			
7. HANDLING AND STORA	GE			
<b>Handling</b> Provide appropriate exh protection.	aust ventilation at places where dust is formed. Normal measures for preventive fire			
<b>Storage</b> Keep container tightly cl	losed in a dry and well-ventilated place.			
8. EXPOSURE CONTROLS	PERSONAL PROTECTION			
Contains no substances	s with occupational exposure limit values.			
Personal protective equipment				
<b>Respiratory protection</b> 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 rep	eated contact use protective gloves.			
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## 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	49 - 53 °C (120 - 127 °F)
Boiling point	no data available
Flash point	> 113.00 °C (> 235.40 °F) - closed cup
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

## **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

#### ΙΑΤΑ

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.

S(+)-2-(4-Isobutylphenyl)-propanoic acid

#### SARA 302 Components

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

CAS-No.

51146-56-6

## 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		Devision Data
S(+)-2-(4-Isobutylphenyl)-propanoic acid	CAS-No. 51146-56-6	Revision Date
New Jersey Right To Know Components		Devision Data
S(+)-2-(4-Isobutylphenyl)-propanoic acid	CAS-No. 51146-56-6	Revision Date

#### 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**

Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.