# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/22/2009 Print Date 03/29/2011

RODUCT AND COMPA				
Product name	: L-Isoleucine	allyl ester <i>p</i> -toluenesulfo	onate salt	
Product Number	: 15013			
Brand	: Sigma			
Company	: Sigma-Aldrich			
	3050 Spruce St SAINT LOUIS N			
	USA	NO 63103		
Telephone	: +18003255832			
Fax	: +18003255052			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORM	ATION ON INGREDIENT	S		
Formula	: C <sub>9</sub> H <sub>17</sub> NO <sub>2</sub> · C	<sub>7</sub> H <sub>8</sub> O <sub>3</sub> S		
Molecular Weight	: 343.44 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
L-Isoleucine allyl est	er toluene- 4-sulfonate			
88224-05-9	-	-	-	
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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: -20 °C

Keep in a dry place.

# 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	powder
Colour	white
Safety data	
рН	no data available
Melting point	120 °C (248 °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.

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur 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.

ŭ	carcinogen or potential carcinogen by	
Potential Health	Effects	
Inhalation Skin Eyes Ingestion		lay cause respiratory tract irritation. through skin. May cause skin irritation. d.
ECOLOGICAL IN	FORMATION	
Elimination info	mation (persistence and degradab	ility)
no data available		
Ecotoxicity effe	ots	
no data available		
Further information	ion on ecology	
no data available		
DISPOSAL CONS		
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Observe all feder Contaminated p Dispose of as unit TRANSPORT INF DOT (US) Not dangerous go IMDG Not dangerous go IATA Not dangerous go REGULATORY IN OSHA Hazards No known OSHA DSL Status This product cont	al, state, and local environmental regu ackaging used product. ORMATION ods ods ods FORMATION hazards	

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 CAS-No. Revision Date L-Isoleucine allyl ester toluene- 4-sulfonate 88224-05-9 Revision Date New Jersey Right To Know Components CAS-No. Revision Date L-Isoleucine allyl ester toluene- 4-sulfonate CAS-No. 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**

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