

**SIGMA-ALDRICH****Material Safety Data Sheet**Version 3.0  
Revision Date 04/15/2009  
Print Date 09/27/2010**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Salicylaldehyde

Product Number : 03273  
Brand : Fluka

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 2-Hydroxybenzaldehyde

Formula : C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>

CAS-No.	EC-No.	Index-No.	Concentration
<b>Salicylaldehyde</b>			
90-02-8	201-961-0	-	<= 100 %
<b>Phenol</b>			
108-95-2	203-632-7	604-001-00-2	<= 0.5 %

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Combustible Liquid, Harmful by ingestion., Irritant

**HMIS Classification**

Health Hazard: 2

Chronic Health Hazard: \*

Flammability: 2

Physical hazards: 0

**NFPA Rating**

Health Hazard: 2

Fire: 2

Reactivity Hazard: 0

**Potential Health Effects****Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation.

**Skin**  
**Eyes**  
**Ingestion**

May be harmful if absorbed through skin. Causes skin irritation.  
Causes eye irritation.  
Harmful if swallowed.

#### 4. FIRST AID MEASURES

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

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

#### 5. FIRE-FIGHTING MEASURES

**Flammable properties**

Flash point 77 °C (171 °F) - closed cup

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**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive. Store under inert gas. Air sensitive.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

### Safety data

pH	no data available
Melting point	1 - 2 °C (34 - 36 °F)
Boiling point	197 °C (387 °F)
Flash point	77 °C (171 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	1.33 hPa (1.00 mmHg) at 33 °C (91 °F)
Density	1.146 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	POW: 1.244

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 520 mg/kg

LD50 Oral - mouse - 504 mg/kg

LD50 Dermal - rat - 600 mg/kg

LD50 Dermal - rabbit - 3,000 mg/kg

LD50 Subcutaneous - rat - 900 mg/kg

LD50 Intraperitoneal - mouse - 231 mg/kg

### Irritation and corrosion

Moderate eye irritation

### Sensitisation

no data available

### Chronic exposure

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)

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.

### Signs and Symptoms of Exposure

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

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	Harmful if swallowed.

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## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

no data available

Toxicity to daphnia and other aquatic invertebrates.	Remarks: no data available
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### Further information on ecology

no data available

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## 13. DISPOSAL CONSIDERATIONS

**Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

NA-Number: 1993 Class: CBL Packing group: III

Proper shipping name: Combustible liquid, n.o.s.

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION****OSHA Hazards**

Combustible Liquid, Harmful by ingestion., Irritant

**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

	CAS-No.
Salicylaldehyde	90-02-8

**SARA 302 Components**

	CAS-No.	Revision Date
Phenol	108-95-2	2007-07-01

**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**

Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Phenol	108-95-2	2007-07-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Salicylaldehyde	90-02-8	

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Phenol	108-95-2	2007-07-01
Salicylaldehyde	90-02-8	

**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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