# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 12/31/2008 Print Date 09/18/2009

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Acetylsalicylic acid

Product Number

: A5376

Brand

Sigma

Company

: Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

Emergency Phone #

+1 800-325-5052 : (314) 776-6555

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: ASA

O-Acetylsalicylic acid

2-Acetoxybenzoic acid

Aspirin

Formula

: CoHaO4

Molecular Weight

: 180.16 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
O-Acetylsalicylic	acid		
50-78-2	200-064-1	-	-

## 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

**OSHA Hazards** 

Target Organ Effect, Toxic by ingestion, Irritant, Reproductive hazard

**Target Organs** 

Blood

**HMIS Classification** 

Health Hazard: Chronic Health Hazard: Flammability: Physical hazards: Ò

NFPA Rating

00001344

Health Hazard:

Fire:

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Reactivity Hazard:

0

Potential Health Effects

Inhalation Skin

May be harmful if inhaled. Causes respiratory tract irritation.

Eves

May be harmful if absorbed through skin. Causes skin irritation. Causes eve irritation.

Ingestion

Toxic 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 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 eve contact

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

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

### 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point

250 °C (482 °F)

Ignition temperature 500 °C (932 °F)

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 dust formation. Avoid breathing dust. Ensure adequate ventilation.

# **Environmental precautions**

Do not let product enter drains.

## Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal

## 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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

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

Keep in a dry place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
O-Acetylsalicylic acid	50-78-2	TWA	5 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
		TWA	5 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A

### Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) 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

## 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

crystalline

Colour

white

Safety data

3.5 at 2.5 g/l at 20 °C (68 °F)

Melting point

134 - 136 ℃ (273 - 277 ℉)

Boiling point

no data available

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Flash point

250 °C (482 °F)

Ignition temperature

500 °C (932 °F)

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility

no data available

Partition coefficient: log Pow: 1.19

n-octanol/water

## 10. STABILITY AND REACTIVITY

## Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents, Strong acids, Strong bases

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

### Thermal decomposition

140 °C (284 °F)

### 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

LD50 Oral - rat - 200 mg/kg

LD50 Oral - rat - 1,500 mg/kg

LD50 Intraperitoneal - rat - 340 mg/kg

LD50 Intraperitoneal - mouse - 167 mg/kg

### Irritation and corrosion

no data available

## Sensitisation

no data available

### Chronic exposure

IARC:

NTP:

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.

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.

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

### Signs and Symptoms of Exposure

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

### Potential Health Effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation.

Skin Eves

Causes eve irritation.

Ingestion

Toxic if swallowed.

**Target Organs** Blood.

Additional Information RTECS: VO0700000

# 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. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

Not dangerous goods

## 15. REGULATORY INFORMATION

#### OSHA Hazards

Target Organ Effect, Toxic by ingestion, Irritant, Reproductive hazard

All components of this product are on the Canadian DSL list.

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

## 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.

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#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

O-Acetylsalicylic acid	CAS-No. 50-78-2	Revision Date 1994-04-24
Pennsylvania Right To Know Components	CAS-No.	Revision Date
O-Acetylsalicylic acid	50-78-2	1994-04-24
New Jersey Right To Know Components	CAS-No.	Revision Date
O-Acetylsalicylic acid	50-78-2	1994-04-24
California Prop. 65 Components WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. O-Acetylsalicylic acid	CAS-No. 50-78-2	Revision Date 1990-07-01

### 16. OTHER INFORMATION

## **Further information**

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