Material Safety Data Sheet

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
Fax: +1 800-325-5052
Emergency Phone #: (314) 778-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:
ASA
O-Acetylsalicylic acid
2-Acetoxynaphthoic acid
Aspirin

Formula: C9H7O4
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

HMXI Classification
Health Hazard: 2
Chronic Health Hazard: 1
Flammability: 1
Physical hazards: 0

NFPA Rating
Health Hazard: 2
Fire: 1

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: 250 °C (462 °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 suitably 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 protection.

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

Keep in a dry place.

Reactivity Hazard: 0
Potential Health Effects
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: Toxic if swallowed.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>GAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Acetylaminolactic acid</td>
<td>50-78-2</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>1994-09-01</td>
<td>US. American Conference of Governmental and Industrial Hygienists</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>1989-03-01</td>
<td>US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 2-1-A</td>
</tr>
</tbody>
</table>

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 workplace.

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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Form</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>crystalline</td>
<td>white</td>
</tr>
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</table>

| Safety data    | pH        | 3.6 at 2.5 g/l at 20 °C (68 °F) |
|                | Melting point | 131 - 136 °C (273 - 277 °F) |
|                | Boiling point | no data available |

10. STABILITY AND REACTIVITY

| 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: n-octanol/water | log Pow: 1.19 |

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: 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.

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

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

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<td>Target Organs</td>
<td>Blood,</td>
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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. Disposal of 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

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

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

DSL Status

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.