

# Safety Data Sheet

## Acetylsalicylic Acid

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1 Product Description

**Product Name:** Acetylsalicylic Acid  
**Recommended Use:** Science education applications  
**Synonyms:** 2-Acetoxybenzoic Acid, Aspirin  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**WARNING**



Harmful if swallowed. May cause respiratory irritation. May cause drowsiness or dizziness.

**GHS Classification:**

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Oral Category 4

### Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|----------------------|--------------|----------|
| Acetylsalicylic Acid | 50-78-2      | 100      |

### Section 4 First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Ingestion:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** None Known  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

### Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area.  
No special spill clean-up considerations. Collect and discard in regular trash.

# Safety Data Sheet

## Section 7

## Handling and Storage

**Handling:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. Avoid creating and inhaling dust.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Blue - Toxic. Store separately in a secured area.

## Section 8

## Protection Information

| <u>Chemical Name</u> | <u>ACGIH</u> | <u>OSHA PEL</u> |       |        |
|----------------------|--------------|-----------------|-------|--------|
|                      | (TWA)        | (STEL)          | (TWA) | (STEL) |
| Acetylsalicylic Acid | 5 mg/m3 TWA  | N/A             | N/A   | N/A    |

### Control Parameters

#### Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use.

#### Eye Protection:

No data. Wear safety glasses with side shields and a Face shield

#### Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Gloves:

Nitrile

## Section 9

## Physical Data

|                                                                         |                                                     |
|-------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Formula:</b> 2-CH <sub>3</sub> COOC <sub>6</sub> H <sub>4</sub> COOH | <b>Vapor Pressure:</b> N/A                          |
| <b>Molecular Weight:</b> 180.17                                         | <b>Evaporation Rate (BuAc=1):</b> N/A               |
| <b>Appearance:</b> Crystalline Solid                                    | <b>Vapor Density (Air=1):</b> N/A                   |
| <b>Odor:</b> No data available                                          | <b>Specific Gravity:</b> 1.35                       |
| <b>Odor Threshold:</b> No data available                                | <b>Solubility in Water:</b> Soluble                 |
| <b>pH:</b> 3.5 at 2.5 g/l at 20 °C (68 °F)                              | <b>Log Pow (calculated):</b> log Pow: 1.19          |
| <b>Melting Point:</b> No data available                                 | <b>Autoignition Temperature:</b> 490 C              |
| <b>Boiling Point:</b> No data available                                 | <b>Decomposition Temperature:</b> No data available |
| <b>Flash Point:</b> 250 C                                               | <b>Viscosity:</b> No data available                 |
| <b>Flammable Limits in Air:</b> N/A                                     | <b>Percent Volatile by Volume:</b> N/A              |

## Section 10

## Reactivity Data

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| <b>Reactivity:</b>               | No data available                                                |
| <b>Chemical Stability:</b>       | Stable under normal conditions.                                  |
| <b>Conditions to Avoid:</b>      | None known. Keep away from oxidizing materials and strong acids. |
| <b>Hazardous Polymerization:</b> | Will not occur                                                   |

## Section 11

## Toxicity Data

|                          |                           |
|--------------------------|---------------------------|
| <b>Routes of Entry</b>   | Inhalation and ingestion. |
| <b>Symptoms (Acute):</b> | N/A                       |
| <b>Delayed Effects:</b>  | No data available         |

**Acute Toxicity:**  
**Chemical Name**

**CAS Number**

**Oral LD50**

**Dermal LD50**

**Inhalation LC50**

# Safety Data Sheet

|                      |         |                                                              |                |                |
|----------------------|---------|--------------------------------------------------------------|----------------|----------------|
| Acetylsalicylic Acid | 50-78-2 | Oral LD50 Rabbit<br>1010 mg/kg<br>Oral LD50 Dog<br>700 mg/kg | Not determined | Not determined |
|----------------------|---------|--------------------------------------------------------------|----------------|----------------|

## Carcinogenicity:

### Chemical Name

No data available

### CAS Number

50-78-2

### IARC

Not listed

### NTP

Not listed

### OSHA

Not listed

## Chronic Effects:

### Mutagenicity:

No evidence of a mutagenic effect.

### Teratogenicity:

No evidence of a teratogenic effect (birth defect).

### Sensitization:

No evidence of a sensitization effect.

### Reproductive:

No evidence of negative reproductive effects.

### Target Organ Effects:

#### Acute:

See Section 2

#### Chronic:

Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

### Overview:

This material is not expected to be harmful to the ecology.

### Mobility:

No data

### Persistence:

No data

### Bioaccumulation:

No data

### Degradability:

No data

### Other Adverse Effects:

No data

### Chemical Name

Acetylsalicylic Acid

### CAS Number

50-78-2

### Eco Toxicity

48 HR EC50 DAPHNIA MAGNA > 100 MG/L

## Section 13

## Disposal Information

### Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### Waste Disposal Code(s):

Not Determined

## Section 14

## Transport Information

### Ground - DOT Proper Shipping Name:

UN2811, Toxic solids, organic, N.O.S. (acetylsalicylic acid), 6.1, III

### Air - IATA Proper Shipping Name:

UN2811, Toxic solids, organic, N.O.S. (acetylsalicylic acid), 6.1, III

## Section 15

## Regulatory Information

### TSCA Status:

All components in this product are on the TSCA Inventory.

### Chemical Name

#### CAS Number

#### § 313 Name

#### § 304 RQ

#### CERCLA RQ

#### § 302 TPQ

#### CAA 112(2) TQ

No data available

50-78-2

No

No

No

No

No

### California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## Section 16

## Additional Information

Revised: 09/09/2015

Replaces: 10/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

## Glossary

# Safety Data Sheet

|        |                                                                          |      |                                               |
|--------|--------------------------------------------------------------------------|------|-----------------------------------------------|
| ACGIH  | American Conference of Governmental<br>Industrial Hygienists             | NTP  | National Toxicology Program                   |
| CAS    | Chemical Abstract Service Number                                         | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response,<br>Compensation, and Liability Act | PEL  | Permissible Exposure Limit                    |
| DOT    | U.S. Department of Transportation                                        | ppm  | Parts per million                             |
| IARC   | International Agency for Research on Cancer                              | RCRA | Resource Conservation and Recovery Act        |
| N/A    | Not Available                                                            | SARA | Superfund Amendments and Reauthorization Act  |
|        |                                                                          | TLV  | Threshold Limit Value                         |
|        |                                                                          | TSCA | Toxic Substances Control Act                  |
|        |                                                                          | IDLH | Immediately dangerous to life and health      |