Material Safety Data Sheet
Acetylsalicylic acid

MSDS# 00300

Section 1 - Chemical Product and Company Identification

MSDS Name: Acetylsalicylic acid
Catalog Numbers: AC158180000, AC158180025, AC158185000, AC385760000
Synonyms: 2-Acetoxybenzoic acid; Aspirin.

Company Identification:
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call:
201-796-7100
Emergency Number US:
201-796-7100
CHEMTREC Phone Number, US:
800-424-9300

Section 2 - Composition, Information on Ingredients

----------------------------------------
CAS#: 50-78-2
Chemical Name: Acetylsalicylic acid
%: 99
EINECS#: 200-064-1
----------------------------------------

Hazard Symbols:
T

Risk Phrases: 25 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Hygroscopic (absorbs moisture from the air). Toxic if swallowed. Causes eye, skin, and respiratory tract irritation. Target Organs: Blood, respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.
Skin: Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. May cause liver and kidney damage. Ingestion may cause high blood pressure, labored breathing, unsteady gait, lung edema, and coma. Human systemic effects include acute renal failure, acute tubular necrosis, cough, diarrhea, dyspnea (labored breathing), headache, hypermetilility, nausea, vomiting, ulceration or bleeding from stomach. Toxic if swallowed.
Inhalation: Causes respiratory tract irritation. Aspiration may lead to pulmonary edema. May be harmful if inhaled.
Chronic: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.
Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration immediately.
Inhalation: respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dangerous fire hazard in the form of dust when exposed to heat or flame.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition
Temperature: 500 deg C (932.00 deg F)
Flash Point: 250 deg C (482.00 deg F)
Explosion Limits: Not available
Explosion Limits: Not available
NFPA Rating: health: 2; flammability: 1; instability: 1;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetylsalicylic acid</td>
<td>5 mg/m3</td>
<td>5 mg/m3 TWA</td>
<td>none listed</td>
</tr>
<tr>
<td>d</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OSHA Vacated PELs: Acetylsalicylic acid: 5 mg/m3 TWA

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder
Color: white
Odor: odorless
**Section 10 - Stability and Reactivity**

**Chemical Stability:**
- Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:**
- Incompatible materials, dust generation, exposure to moist air or water.

**Incompatibilities with Other Materials**
- Strong oxidizing agents, strong acids, strong bases, alkalis.

**Hazardous Decomposition Products**
- Carbon monoxide, carbon dioxide.

**Hazardous Polymerization**
- Will not occur.

**Section 11 - Toxicological Information**

**RTECS#:** CAS# 50-78-2: VO0700000

**RTECS:**
- **CAS# 50-78-2:** Oral, mouse: LD50 = 250 mg/kg;
- Oral, rabbit: LD50 = 1010 mg/kg;
- LD50/LC50: Oral, rat: LD50 = 200 mg/kg;
- Other: Human oral LD50 estimated at 357 mg/kg. Other references state that a 10 g dose (143 mg/kg) may be fatal in humans.

**Carcinogenicity:** Acetylsalicylic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

**Section 12 - Ecological Information**

**Ecotoxicity:**
- Fish: Leuciscus idus: >1000 mg/L; 48H; LC50
- Daphnia: Daphnia: 168 mg/L; 24H; EC50
- Bacteria: Phytobacterium phosphoreum: 26 mg/L; 5M; EC50

**Other:** Do not empty into drains. Readily biodegradable.

**Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14 - Transport Information**

**US DOT**
- Shipping Name: TOXIC SOLIDS, ORGANIC, N.O.S.
- Hazard Class: 6.1
- UN Number: UN2811
- Packing Group: III

**Canada TDG**
- Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.
- Hazard Class: 6.1
- UN Number: UN2811
- Packing Group: III

**Section 15 - Regulatory Information**

**European/International Regulations**
- European Labeling in Accordance with EC Directives
Hazard Symbols: T

Risk Phrases:

R 25 Toxic if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 50-78-2: 1

Canada

CAS# 50-78-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 50-78-2 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 50-78-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 12/12/1997

Revision #12 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.