Material Safety Data Sheet

Catalog Number: 150245
Revision date: 25-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 150245
Product name: ACETYL SALICYLIC ACID
Synonyms: 2-Acetoxybenzoic Acid; Aspirin; Acetol; Acetophen; Acide Acetylsalicylique; Endydol; Globoid; Helicon
Supplier:
MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
<th>ACGIH Exposure Limits</th>
<th>OSHA Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETYL SALICYLIC ACID</td>
<td>50-78-2</td>
<td>90 - 100%</td>
<td>5 mg/m³ TWA</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Toxic: danger of very serious irreversible effects if swallowed. May also have serious irreversible effects through skin contact or inhalation.

Category of Danger:
Toxic, Repr. cat. 2

Principal routes of exposure: Skin
Inhalation: Harmful; possible risk of irreversible effects through inhalation.
Ingestion: Toxic; danger of very serious irreversible effects if swallowed.
Skin contact: Harmful; danger of serious damage to health by prolonged skin contact.
Eye contact: Risk of serious damage to eyes

Statements of hazard
Toxic if swallowed
Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.
Statement of First Aid If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.
Precautions - ANSI Label Do not taste or swallow. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist

4. FIRST AID MEASURES

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

Catalog Number: 150245
Product name: ACETYL SALICYLIC ACID
Inhalation: Move to fresh air. Call a physician immediately.
Skin contact: Rinse immediately with plenty of water and seek medical advice
Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. Drink 1 or 2 glasses of water. Induce vomiting if person is conscious.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protection of first-aiders: No information available
Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam
Specific hazards: Burning produces irritant fumes.
Unusual hazards: None known
Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific methods: Water mist may be used to cool closed containers.
Flash point: Not determined
Autoignition temperature: 490 °C
NFPA rating:
- NFPA Health: 2
- NFPA Flammability: 0
- NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.
Environmental precautions: Prevent product from entering drains.
Methods for cleaning up: Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage: ROOM TEMPERATURE
Handling: Use only in area provided with appropriate exhaust ventilation.
Safe handling advice: Wear personal protective equipment. Remove and wash contaminated clothing before reuse.
Technical measures/storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.
Incompatible products: Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.
PERSONAL PROTECTIVE EQUIPMENT
Respiratory protection: Breathing apparatus only if aerosol or dust is formed.
Hand protection: PVC or other plastic material gloves
Skin and body protection: Impervious clothing Long sleeved clothing
Eye protection: Safety glasses with side-shields
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White
Physical state: Powder
Formula: C₉H₈O₄
Molecular weight: 180.15
Melting point/range: 135 °C
Boiling point/range: 140 °C (decomposes)
Density: 1360 kg/m³ at 20 °C
Vapor pressure: 2.52E-05 mm Hg at 25 deg. C (calculated)
Evaporation rate: No data available
Vapor density: No data available
Solubility (in water): Moderately soluble
Flash point: Not determined
Autoignition temperature: 490 °C

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Polymerization: None under normal processing.
Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid: Fires and explosions may result from contact with strong oxidizers. Alkali hydroxides or carbonates cause decomposition.
Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information
Acute toxicity
Components
ACETYLNSALICYLYC ACID
RTECS Number: VO0700000
Selected LD50s and LC50s
Oral LD50 Rat: 200 mg/kg
Oral LD50 Mouse: 250 mg/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Primary irritation: No data is available on the product itself.
Carcinogenic effects: No data is available on the product itself.
Mutagenic effects: No data is available on the product itself.
Reproductive toxicity:
Components
ACETYLNSALICYLYC ACID
Experiments have shown reproductive toxicity effects on laboratory animals.

NIOSH - Health Effects
mucosal irritation, respiratory effects, internal/respiratory system, eyes, blood, liver, kidney, skin

NIOSH - Target Organs

12. ECOLOGICAL INFORMATION

Mobility: No data available
Bioaccumulation: No data available
Ecotoxicity effects: No data available

Catalog Number: 160245
Product name: ACETYLNSALICYLYC ACID
Aquatic toxicity:

Components

- U.S. DOT - Appendix B - Marine Pollutant
  - ACETYL-SALICYLIC ACID: Not Listed
  - Germany VCI (WGK)
  - World Health Organization (WHO) - Drinking Water
    - Not Listed
  - United Kingdom - The Red List:
    - Ecotoxicity - Fish Species Data
    - Not Listed

- EPA - ATSDR Priority List
  - Not Listed

- California - Priority Toxic Pollutants
  - Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous. Do not re-use empty containers.

Contaminated packaging:

14. TRANSPORT INFORMATION

UN/ID No: 2811

DOT:

- Proper shipping name: Toxic solid, organic, n.o.s.
- IATA Hazard Label(s): Toxic
- Hazard Class 6.1 - Toxic substances - oral
- Packing group: III

Emergency Response Guide Number (ERG): 154

Components

- U.S. DOT - Appendix A Table 1 - Reportable Quantities
  - Not Listed

TDG (Canada):

- WHMIS hazard class: D2a very toxic materials

Catalog Number: 150245

Product name: ACETYL-SALICYLIC ACID
15. REGULATORY INFORMATION

International Inventories

Components
ACETYL SALICYLIC ACID
Inventory - United States TSCA - Sect. 8(b) Present
Canada DSL Inventory List: Present
Australia (AICS): Present
Inventory - China: Present
EU EINECS List: 200-054-1; C9H8O4
Inventory - Japan: 3-1652
Korean KECL: KE-00131
Philippines PICCS: Present

U.S. Regulations:
Components
ACETYL SALICYLIC ACID California Proposition 65 Massachusetts Right to Know List: [present]
New Jersey Right to Know List: sn 0020
Pennsylvania Right to Know List: [present]

Components
Florida substance List: [present]
Rhode Island Right to Know List: Toxic
Illinois - Toxic Air Pollutants Not Listed
Connecticut - Hazardous Air Pollutants 100 ug/m³ HLV

Components
SARA 313 Emission reporting/Toxic Release of Chemicals Not Listed
CERCLA/SARA - Section NTP: 302 Extremely Haz
ACETYL SALICYLIC ACID Not Listed
IARC: None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 478-2499 (in Washington, DC or Alaska).
State Notification: The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorogenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety
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End of Safety Data Sheet
Certificate of Analysis

<table>
<thead>
<tr>
<th>Product Description: Acetyl/salicylic Acid</th>
<th>Formula Weight: 180.16</th>
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<tbody>
<tr>
<td>Catalog Number: 150245</td>
<td></td>
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<tr>
<td>Lot: 5087KA</td>
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</tbody>
</table>

| Formula: C$_9$H$_7$O$_4$                         |                         |
| CAS #: 50-78-2                                   |                         |
| Physical Description: White Crystalline Powder   |                         |
| Storage: Room Temperature                       |                         |

Heavy Metals: <10 ppm
Free Salicylic Acid: <0.010%
Loss on Drying: 0.05%
Residue on Ignition: 0.03%
Chloride: <0.014%
Sulfate: <0.04%
Assay: 99.9%

10/23/2009 - Christina Marotta
MP Biomedicals, LLC.
Technical Director

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