

# MATERIAL SAFETY DATA SHEET (MSDS)

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## Material Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** Acetylsalicylic Acid  
**Manufacturer** EM Science  
A Division of EM Industries  
P.O. Box 70  
480 Democrat Road  
Gibbstown, N.J. 08027

**Product Code** AX1795  
**Effective Date** 6/26/2002

#### For More Information Call

856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

#### In Case of Emergency Call

800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

**Synonym** ACETYLSALICYLIC ACID, ASPIRIN  
**Material Uses** Analytical reagent.  
**Chemical Family** Aromatic Acid Ester.

### Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
ACETYLSALICYLIC ACID	50-78-2	100

### Section 3. Hazards Identification

**Physical State and Appearance** Solid. (Powder.)

#### Emergency Overview

DANGER !POISON !  
MAY BE FATAL IF SWALLOWED.  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
MAY BE HARMFUL IF INHALED.  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
BLOOD, KIDNEYS, LUNGS, LIVER, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, EYES, EYE, LENS OR CORNEA.  
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

#### Routes of Entry

Inhalation. Ingestion.

#### Potential Acute Health Effects

**Eyes** Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

**Skin** Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** Hazardous in case of inhalation (lung irritant). May be hazardous in case of inhalation.

**Ingestion** Extremely hazardous in case of ingestion. May be fatal if swallowed.

#### Potential Chronic Health Effects

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.  
Additional information See Toxicological Information (section 11)

#### Medical Conditions

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

#### Aggravated by Overexposure:

### Section 4. First Aid Measures

#### Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Ingestion</b>	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

### Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Auto-ignition Temperature</b>	Not available.
<b>Flash Points</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Not applicable.
<b>Fire Hazards in Presence of Various Substances</b>	Flammable in presence of open flames, sparks and static discharge, of shocks, of heat.
<b>Explosion Hazards in Presence of Various Substances</b>	<p><b>Risks of explosion of the product in presence of static discharge:</b> Flammable in presence of open flames, sparks and static discharge. Explosive in presence of open flames, sparks and static discharge.</p> <p><b>Risks of explosion of the product in presence of mechanical impact:</b> Flammable in presence of shocks. Explosive in presence of shocks.</p>
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder.
<b>Protective Clothing (Fire)</b>	LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Be sure to use an approved/certified respirator or equivalent.
<b>Special Remarks on Fire Hazards</b>	Not available.
<b>Special Remarks on Explosion Hazards</b>	Dust can combine with air to form an explosive mixture

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill and Leak</b>	Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
<b>Spill Kit Information</b>	No specific spill kit required for this product.

### Section 7. Handling and Storage

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Personal Protection</b>	<p><b>Eyes</b> Splash goggles.</p> <p><b>Body</b> Lab coat.</p>

**Respiratory** Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands** Gloves.

**Feet** Not applicable.

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Product Name**

ACETYLSALICYLIC ACID

**Exposure Limits**

AUVA (Austria, 1995).

TWA: 5 mg/m<sup>3</sup>

Belgium Minister of Labour (Belgium, 1998).

VL: 5 mg/m<sup>3</sup>

BAUA (Germany, 1997).

MAK: 5 mg/m<sup>3</sup>

DK-Arbejdstylnet (Denmark, 1996).

GV: 5 mg/m<sup>3</sup>

National Authority for Occupational Safety/Health (Ireland, 1999).

OEL: 5 mg/m<sup>3</sup>

Arbeidsinspectie (Netherlands, 1999).

TGG 8 uur: 5 mg/m<sup>3</sup>

N-Arbejdstylnet (Norway, 1996).

AN: 5 mg/m<sup>3</sup>

EH40-OES (United Kingdom (UK), 1997).

TWA: 5 mg/m<sup>3</sup>

ACGIH (United States, 1994).

TWA: 5 mg/m<sup>3</sup>

NIOSH REL (United States, 1994).

TWA: 5 mg/m<sup>3</sup> Period: 10 hour(s).

OSHA Final Rule (United States, 1989).

TWA: 5 mg/m<sup>3</sup>

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**Section 9. Physical and Chemical Properties**

<b>Odor</b>	Not available.
<b>Color</b>	White.
<b>Physical State and Appearance</b>	Solid. (Powder.)
<b>Molecular Weight</b>	180.17 g/mole
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>
<b>pH</b>	Not available.
<b>Boiling/Condensation Point</b>	140°C (284°F)
<b>Melting/Freezing Point</b>	135.05°C (275.1°F)
<b>Specific Gravity</b>	1.35 (Water = 1)
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	Not available.
<b>Odor Threshold</b>	Not available.
<b>Evaporation Rate</b>	Not available.
<b>LogKow</b>	Not available.
<b>Solubility</b>	Partially soluble in water.

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**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents.
<b>Rem/Incompatibility</b>	Avoid excessive heat.
<b>Hazardous Decomposition Products</b>	Not available.

**Hazardous  
Polymerization**

Will not occur.

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**Section 11. Toxicological Information**

Aspirin, Powder, USP

VO0700000

**RTECS Number:**

**Toxicity**

Acute oral toxicity (LD50): 200 mg/kg [Rat].

**Chronic Effects on**

Not available.

**Humans**

**Acute Effects on**

Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). May be hazardous in case of inhalation. Extremely hazardous in case of ingestion. May be fatal if swallowed.

**Humans**

**Synergetic Products  
(Toxicologically)**

Not available.

**Irritancy**

Draize Test: Not available.

**Sensitization**

Not available.

**Carcinogenic Effects**

This material is not known to cause cancer in animals or humans.

**Toxicity to**

Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).

**Reproductive System**

Not available.

**Teratogenic Effects**

Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).

**Mutagenic Effects**

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**Section 12. Ecological Information**

**Ecotoxicity**

Not available.

**BOD5 and COD**

Not available.

**Toxicity of the Products  
of Biodegradation**

The products of degradation are less toxic than the product itself.

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**Section 13. Disposal Considerations**

**EPA Waste Number**

D003

**Treatment**

Specified Technology - Contact your local permitted waste disposal site (TSD) for permissible treatment sites. ALWAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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**Section 14. Transport Information**

**DOT Classification**

Proper Shipping Name: TOXIC SOLIDS,  
ORGANIC,N.O.S. (ACETYLSALICYLIC ACID)

Hazard Class: 6.1

UN number: UN2811

Packing Group: III

RQ: Not applicable.

**TDG Classification**

Not available.

**IMO/IMDG**

Not available.

**Classification**

**ICAO/IATA**

Not available.

**Classification**

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**Section 15. Regulatory Information**

**U.S. Federal Regulations**

TSCA 8(b) inventory: ACETYLSALICYLIC ACID

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: ACETYLSALICYLIC ACID

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

ACETYLSALICYLIC ACID: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.  
 Class D-1B: Material causing immediate and serious toxic effects (TOXIC).  
 Class D-2A: Material causing other toxic effects (VERY TOXIC).  
 Class D-2B: Material causing other toxic effects (TOXIC).  
 CEPA DSL: ACETYLSALICYLIC ACID  
 This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

**WHMIS (Canada)**

**International Regulations**

**EINECS  
 DSCL (EEC)**

ACETYLSALICYLIC ACID 200-064-1  
 R25- Toxic if swallowed.  
 R37/38- Irritating to respiratory system and skin.  
 R41- Risk of serious damage to eyes.  
 Australia (NICNAS): ACETYLSALICYLIC ACID

**International Lists**

Japan (MITI): ACETYLSALICYLIC ACID  
 Korea (TCCL): ACETYLSALICYLIC ACID

Philippines (RA6969): ACETYLSALICYLIC ACID  
 China: No products were found.  
 Pennsylvania RTK: ACETYLSALICYLIC ACID: (generic environmental hazard)  
 Massachusetts RTK: ACETYLSALICYLIC ACID  
 New Jersey: ACETYLSALICYLIC ACID  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: ACETYLSALICYLIC ACID  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: ACETYLSALICYLIC ACID  
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: ACETYLSALICYLIC ACID

**State Regulations**

**Section 16. Other Information**

<b>National Fire Protection Association (U.S.A.)</b>	<b>Health</b>	<b>1</b>	<b>Fire Hazard Reactivity Specific Hazard</b>
		<b>1 0</b>	

**Changed Since Last  
 Revision  
 Notice to Reader** +

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