

10/28/2009

**SIGMA-ALDRICH**

**Material Safety Data Sheet**

Version 3.0  
Revision Date 12/28/2008  
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Acetaminophen  
Product Number : A7085  
Brand : Sigma-Aldrich  
Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : APAP  
N-Acetyl-4-aminophenol  
4-Acetamidophenol  
4'-Hydroxyacetanilide

Formula : C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>  
Molecular Weight : 151.16 g/mol

| CAS-No.     | EC-No.    | Index-No. | Concentration |
|-------------|-----------|-----------|---------------|
| Paracetamol |           |           |               |
| 103-90-2    | 203-157-5 | -         | -             |

**3. HAZARDS IDENTIFICATION**

**Emergency Overview**

**OSHA Hazards**  
Target Organ Effect, Irritant

**Target Organs**

Liver, Kidney

**HMIS Classification**

Health Hazard: 2  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0

**NFPA Rating**

Health Hazard: 2  
Fire: 0

**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** : May be harmful if swallowed.

**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 : no data available

Ignition temperature : no data available

**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 suitable, 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### 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 work place.

#### 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

### Appearance

|        |        |
|--------|--------|
| Form   | powder |
| Colour | white  |

### Safety data

|                       |                             |
|-----------------------|-----------------------------|
| pH                    | no data available           |
| Melting point         | 168 - 172 °C (334 - 342 °F) |
| Boiling point         | no data available           |
| Flash point           | no data available           |
| Ignition temperature  | no data available           |
| Lower explosion limit | no data available           |
| Upper explosion limit | no data available           |
| Water solubility      | no data available           |

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 1,944 mg/kg

### Irritation and corrosion

no data available

### Sensitisation

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

### Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: Group 3 - Not classifiable as to carcinogenicity to humans (Paracetamol)

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.

### 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

|               |  |
|---------------|--|
| 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     | May be harmful if swallowed.                                     |
| Target Organs | Liver, Kidney,   |

### Additional Information

RTECS: AE4200000

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

|  |   |
|--|---|
| Toxicity to fish                                     | LC50 - Pimephales promelas (fathead minnow) - 814 mg/l - 96 h |
| Toxicity to daphnia and other aquatic invertebrates. | EC50 - Daphnia magna (Water flea) - 9.2 mg/l - 48 h           |

### 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.

**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, Irritant

**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.

**SARA 311/312 Hazards**  
Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**  
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

|             | CAS-No.  | Revision Date |
|-------------|----------|---------------|
| Paracetamol | 103-90-2 |               |

**New Jersey Right To Know Components**

|             | CAS-No.  | Revision Date |
|-------------|----------|---------------|
| Paracetamol | 103-90-2 |               |

**California Prop. 65 Components**  
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION**

**Further information**  
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