# SAFETY DATA SHEET

Version 5.0 Revision Date 09/28/2016 Print Date 12/08/2017

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Acetaminophen

Product Number A5000

Brand Sigma-Aldrich

Product Use For laboratory research purposes.

Sigma-Aldrich Canada Co. Sigma-Aldrich Corporation Supplier Manufactur

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OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

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**Preparation Information** 

both supplier and manufacturer)

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Sigma-Aldrich Corporation Product Safety - Americas Region

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## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

# **Target Organs**

Liver, Kidney

## **WHMIS Classification**

D<sub>1</sub>B Toxic Material Causing Immediate and Serious Toxic by ingestion

**Toxic Effects** 

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant Moderate respiratory irritant

Moderate eye irritant Skin sensitiser

**GHS Classification** 

Acute toxicity, Oral (Category 4) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2A)

Skin sensitisation (Category 1)

## GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

Harmful if swallowed. H302 H315 Causes skin irritation.

H317 May cause an allergic skin reaction. Causes serious eye irritation. H319

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Sigma-Aldrich - A5000 Page 1 of 6 P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P501 Dispose of contents/ container to an approved waste disposal plant.

## **HMIS Classification**

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 1
Physical hazards: 0

### **Potential Health Effects**

InhalationMay be harmful if inhaled. Causes respiratory tract irritation.SkinMay be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation. **Ingestion** Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : APAP

N-Acetyl-4-aminophenol 4-Acetamidophenol 4'-Hydroxyacetanilide

Formula : C8H9NO2 Molecular weight : 151.17 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Paracetamol			
103-90-2	203-157-5	-	<=100%

## 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. FIREFIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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# **Hazardous combustion products**

# Explosion data - sensitivity to mechanical impact

No data available

### Explosion data - sensitivity to static discharge

No data available

### 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

## Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Personal protective equipment

## Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form powder Colour white

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# Safety data

pH 4.23 at 26 °C (79 °F)

Melting

point/freezing point

Melting point/range: 167 °C (333 °F)

Boiling point 273 °C (523 °F) at 966 hPa (725 mmHg)

Flash point 177 °C (351 °F) - open cup

Ignition temperature No data available
Auto-ignition No data available

temperature

Lower explosion limit No data available
Upper explosion limit No data available
Vapour pressure No data available

Density 1.297 g/cm3 at 25 °C (77 °F)

Water solubility 4 g/l at 26 °C (79 °F) - soluble

Partition coefficient: log Pow: 0.82 at 25 °C (77 °F)

n-octanol/water

Relative vapour

density

No data available

Odour No data available
Odour Threshold No data available
Evaporation rate No data available

### **10. STABILITY AND REACTIVITY**

### **Chemical stability**

Stable under recommended storage conditions. Stable under recommended storage conditions.

## Possibility of hazardous reactions

No data available

## Conditions to avoid

No data available

#### Materials to avoid

Oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

### Oral LD50

LD50 Oral - Mouse - female - 338 mg/kg

### **Inhalation LC50**

No data available

## **Dermal LD50**

No data available

### Other information on acute toxicity

No data available

### Skin corrosion/irritation

Skin - Rat - Skin irritation

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## Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

Genotoxicity in vitro - Ames test - Salmonella typhimurium - with and without metabolic activation - negative

## Carcinogenicity

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: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

# Reproductive toxicity

No data available

## **Teratogenicity**

No data available

# Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

# **Aspiration hazard**

No data available

# Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Synergistic effects

No data available

### **Additional Information**

RTECS: Not available

### 12. ECOLOGICAL INFORMATION

### **Toxicity**

Toxicity to fish LC50 - Oryzias latipes - 160 mg/l - 96 h

Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 269.1 mg/l - 24 h

and other aquatic invertebrates

### Persistence and degradability

No data available

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## Bioaccumulative potential

No data available

### Mobility in soil

No data available

## PBT and vPvB assessment

No data available

Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## 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

## **WHMIS Classification**

D1B Toxic Material Causing Immediate and Serious Toxic by ingestion

**Toxic Effects** 

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant

Moderate respiratory irritant

Moderate eye irritant

Skin sensitiser

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

## 16. OTHER INFORMATION

## **Further information**

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