

## Material Safety Data Sheet.

### 1. IDENTIFICATION

**Product Identifier:** ACETAMINOPHEN

**Other Means of Identification:**

Chemical Name: N-(4-hydroxyphenyl)-acetamide

Synonymes: Paracetamol, p-Hydroxyacetanilide, APAP, N-Acetamidophenol

Chemical Family: A non-steroid anti-inflammatory drug (NSAID)

Chemical Formula: C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>

CAS Number: 103-90-2

EINECS Number: 203-157-5

**Recommended Use**

**Restrictions on Use**

**Initial Supplier Identifier:** Gurvey & Berry Co. Inc.  
310 Judson Street, Unit #15  
Toronto, ON, Canada, M8Z 5T6  
Tel: (416) 259-5700 Fax: (416) 259-5417  
E-mail: [msds@gurveyberry.com](mailto:msds@gurveyberry.com)

**Emergency Telephone number:** Canutec +1 (613)-966-6666

### 2. HAZARD IDENTIFICATION

**GHS Classification in accordance with Hazardous Products Regulations (HPR) OR/2015-17)**

Acute toxicity, Oral (Category 4), H302

**GHS Label elements, including precautionary statements**

**Pictogram**



**Signal word**

Warning

**Hazard statement(s)**

H302

Harmful if swallowed.

**Precautionary statement(s)**

P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

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

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS No.	Concentration	Common name / Synonyms	Other identifiers
Acetaminophen	103-90-2	100%	See section 1	None

Notes:

<b>4. FIRST-AID MEASURES</b>
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**First aid measures by route of exposure:**

General: Remove person from area of exposure.

After Inhalation: Remove from exposure and move to fresh air immediately. If not breathing give artificial respiration. Get medical aid.

After Skin Contact: Get medical aid. Flush skin with plenty of water for at least 15 min. while removing contaminated clothing and shoes.

After Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

After Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. **Do NOT administer activated charcoal.** If large quantities of this material is swallowed, call a physician immediately. Loosen tight clothing such a collar, belt, or waistband.

**Most Important Symptoms and Effects, Acute and Delayed:**

Inhalation: May produce an allergic response in sensitized individuals. Symptoms may include rash or wheezing.

Skin Contact: May cause skin damage. May be harmful when absorbed through the skin.

Eye Contact: May cause eye irritation.

Ingestion: Potentially toxic single dose: 10-15 grams; 25 grams is potentially fatal.  
May cause gastrointestinal irritation with nausea, vomiting, and diarrhea, irritability, somnolence, general anesthesia, fever. May cause changes in exocrine glands, pancreas, liver damage, kidney tubule damage, blood cells damage.

Medical Conditions Aggravated By Exposure: Repeated ingestion of toxic doses may produce cirrhosis of the liver. Individuals exposed to alcohol or other drugs may be more susceptible to the toxic effects of this substance.

#### **Immediate Medical Attention and Special Treatment**

Not available

### **5. FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media:**

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam, or carbon dioxide.

#### **Unsuitable Extinguishing Media:**

For this substance/mixture no limitations of extinguishing agents are given. Do not use water jet.

#### **Special Hazards Arising from the Product:**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>) Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

#### **Special Protective Equipment and Precautions for Fire-Fighters:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Further information.** Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment, and emergency procedures:**

Follow good manufacturing practices. Wear Personal Protective Equipment as listed in Section 8. Do not eat or drink while handling this material.

Wash thoroughly with soap and water after handling this material.

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact with skin, eyes, and clothing. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

### **Methods and materials for containment and cleaning up**

#### **Small spill**

Use appropriate tools to put the solid in a convenient waste disposal container serving precautions in the Protective Equipment section. Finish cleaning by spreading water on the contaminated surface and dispose of in according to local and regional authority requirement.

#### **Large spill.**

Use a shovel to put the solid in a convenient waste disposal container serving precautions in the Protective Equipment section. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Dispose the waste container of in according to local and regional authority requirement.

Avoid generation of dusts.

#### **Environmental precautions**

Do not let product enter drains.

#### **Reference to other sections**

For disposal see section 13.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling:**

Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

### **Conditions for Safe Storage:**

Store in a cool, dry place, away from sources of heat and ignition. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Acetaminophen	Not assigned	Not assigned	Not assigned	Not assigned

**Appropriate Engineering Controls:** Eyewash station and safety shower required. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

### Personal Protection Measures (e.g. personal protective equipment):

**Eye/face protection** Use equipment for eye protection tested and approved under appropriate government standards. Splash goggles.

**Skin and body protection** Full suit protective clothing, boots, gloves, goggles

**Respiratory protection** If operations generate dust, fume, or mist, use local ventilation or other appropriate Engineering controls to keep exposure contaminants below the exposure limit. Be sure to use approved /certified respirator or dust mask, such as standard N95.

**Control of environmental exposure** Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form:	Solid (powder)
Color:	white
Molecular Weight:	151.16
Odor:	odorless
Odor Threshold:	N/A
pH:	5.5 - 6.5 at 20 °C (68 °F) - (saturated solution)
Melting Point/freezing point:	169.00-172.00 deg C
Initial boiling point/boiling range:	N/A
Flash Point:	184.6 °C (364.3 °F) - Pensky-Martens closed cup - ISO 2719
Evaporation Rate:	N/A
Flammability (solid; gas):	N/A
Upper flammability or explosive limits	N/A
Lower flammability or explosive limits	N/A

Vapor Pressure (mmHg):	N/A
Vapor Density (air=1):	N/A
Relative Density:	
Solubility in Water:	Soluble in cold water
Solubility in Other Agents:	N/A
Partition coefficient (n-octanol/water expected)	
Autoignition	N/A
Decomposition	> 180 °C (> 356 °F)
Viscosity	N/A
Explosive properties	N/A
Oxidizing properties	N/A
Other information:	

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Forms explosive mixtures with air on intense heating. A dust explosion potential may generally be assumed.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No data available
<b>Conditions to avoid:</b>	Strong heating.
<b>Incompatible materials:</b>	No data available
<b>Hazardous decomposition products:</b>	formed under fire conditions – Carbon oxides, Nitrogen oxides (NO <sub>x</sub> )
<b>Other decomposition products</b>	No data available
<b>In the event of fire:</b>	see section 5

## 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation x Skin contact x Eye contact x Ingestion x

<b>Acute Toxicity LD<sub>50</sub>:</b>	Oral Mouse LD <sub>50</sub> =338 mg/kg Oral Rat LD <sub>50</sub> =1944 mg/kg
<b>Skin corrosion/irritation:</b>	May cause irritation.
<b>Serious Eye Damage/irritation:</b>	May cause irritation.
<b>Respiratory and/or Skin Sensitization:</b>	Sensitization possible in predisposed persons.
<b>Aspiration Toxicity:</b>	N/A
<b>STOT (Specific Target Organ Toxicity) Single Exposure:</b>	Kidney and liver
<b>STOT (Specific Target Organ Toxicity) Repeated Exposure:</b>	Kidney and liver, blood cells damage

**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

**ACGIH®****OSHA****Reproductive Toxicity:** N/A**Germ Cell Mutagenicity:** N/A**Interactive Effects** N/A**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

Toxicity to fish flow-through test LC50 - *Oryzias latipes* (Orange-red killifish) - 160 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to bacteria Remarks: (Lit.)(4'-hydroxyacetanilide)

**Persistence and degradability:**

Biodegradability Result: 57 % - Not readily biodegradable. (OECD Test Guideline 301F)

**Bioaccumulative potential:**

No data available

**Mobility in soil:**

No data available

**Other adverse effects:**

No data available

**13. DISPOSAL CONSIDERATIONS****Wastes of Residues:**

Package product wastes. Close and label the waste receptacles and, likewise, any uncleaned empty containers. Dispose of them at a suitable waste incineration plant in accordance with the official regulations. Where large quantities are concerned, consult the supplier.

**Contaminated Packaging:**

Same

**14. TRANSPORT INFORMATION**

Not dangerous goods for transport. Keep separated from foodstuffs.

## **15. REGULATORY INFORMATION**

### **CANADA**

DSL/NDSL: CAS# 103-90-2 is listed on Canada's DSL List.

Ingredient Disclosure List: CAS# 103-90-2 is not listed on Canada's Ingredient Disclosure List.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## **16. OTHER INFORMATION**

This information is based upon knowledge currently available.

More detailed information on the physical and chemical properties can be requested from the supplier. To the best of our knowledge, the information contained herein is accurate and complete. However, this should not be construed to imply any warranty or guarantee. Gurvey & Berry Co. Inc. shall not be held liable for any damage resulting from handling or from contact with the above chemical.

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This document will only be updated as needed.

N/A = not available.

N/D = not determined.