

SAFETY DATA SHEET Acetaminophen

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Revision: 06/14/2017 Supersedes Revision: 09/14/2015

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code:

10024

Product Name:

Acetaminophen

Synonyms:

N-(4-hydroxyphenyl)-acetamide; Paracetamol; 4'-Hydroxyacetanilide; NSC 109028; NSC 3991;

APAP; 4-Acetamidophenol;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses:

For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name:

Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address:

www.caymanchem.com

Information:

Cayman Chemical Company

+1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact:

CHEMTREC Within USA and Canada:

+1 (800)424-9300

CHEMTREC Outside USA and Canada:

+1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

Acute Toxicity: Oral, Category 4

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2

Skin Sensitization, Category 1B

Specific Target Organ Toxicity (single exposure), Category 3

Aquatic Toxicity (Acute), Category 2

Aquatic Toxicity (Chronic), Category 2

2.2 Label Elements:





GHS Signal Word:

Warning

GHS Hazard Phrases:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.



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GHS Precaution Phrases:

P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.

P264: Wash {hands} thoroughly after handling.

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

P273: Avoid release to the environment.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P321: Specific treatment (see ... on this label).

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health

Causes serious eye irritation.

Effects and Symptoms:

Causes skin irritation.

Causes damage to organs through prolonged or repeated exposure.

Harmful if swallowed.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause an allergic skin reaction.

May cause respiratory system irritation.

Toxic to aquatic life with long lasting effects.

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

Section 3. Composition/Information on Ingredients

| CAS#/ RTECS# | Hazardous Components (Chemical Name)/ REACH Registration No. | Concentration | EC No./ EC Index No. | GHS Classification |
|-----------------------|--|---------------|-------------------------|--|
| 103-90-2 AE4200000 | 4-Acetamidophenol | 100.0 % | 203-157-5 NA | Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Skin Sens. 1B: H317 Eye Damage 2: H319 STOT (SE) 3: H335 H336 Aquatic (A) 2: H401 Aquatic (C) 2: H411 |



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Section 4. First Aid Measures

4.1 **Description of First Aid**

Measures:

In Case of Inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion:

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

Section 5. Fire Fighting Measures

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

Media:

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

No data available.

Flash Pt:

No data.

Explosive Limits:

LEL: No data.

UEL: No data.

Autoignition Pt:

No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or 5.3

equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

Avoid raising and breathing dust, and provide adequate ventilation. 6.1 Protective Precautions,

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Take steps to avoid release into the environment, if safe to do so.

Emergency Procedures:

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 **Environmental**

Precautions:

Methods and Material For Contain spill and collect, as appropriate. 6.3

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling:

Avoid prolonged or repeated exposure.

7.2

Precautions To Be Taken Keep container tightly closed.

in Storing:

Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 **Exposure Parameters:**

| CAS# | Chemical Name | Jurisdiction | Recommended Exposure Limits | Notations |
|----------|-------------------|--------------|-----------------------------|-----------|
| 103-90-2 | 4-Acetamidophenol | Britain EH40 | TWA: 10 mg/m3 () | |
| | | | STEL: () (Inhalable dust) | |

Multi-region format



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(Ventilation etc.): levels below recommended exposure limits. 8.2.2 Personal protection equipment:

Eye Protection:

8.2.1 Engineering Controls

Safety glasses

Protective Gloves:

Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment

NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices:

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

Wash thoroughly after handling.

No data available.

Section 9. Physical and Chemical Properties Information on Basic Physical and Chemical Properties 9.1 **Physical States:** [] Gas [] Liquid [X] Solid A crystalline solid Appearance and Odor: pH: No data. No data. **Melting Point:** No data. **Boiling Point:** Flash Pt: No data. **Evaporation Rate:** No data. Flammability (solid, gas): No data available. LEL: No data. UEL: No data. **Explosive Limits:** Vapor Pressure (vs. Air or mm No data. Hg): Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. ~2 mg/ml in PBS (pH 7.2); ~25 mg/ml in EtOH & DMF; ~20 mg/ml in DMSO; **Solubility Notes:** Octanol/Water Partition No data. Coefficient: No data. **Autoignition Pt: Decomposition Temperature:** No data. Viscosity: No data. 9.2 Other Information Percent Volatile: No data. Molecular Formula & Weight: **C8H9NO2** 151.2



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Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable []

10.3

Stability Note(s):

Stable if stored in accordance with information listed on the product insert.

Polymerization:

Will occur []

Will not occur [X]

Stable [X]

10.4 **Conditions To Avoid:** No data available.

Incompatibility - Materials strong oxidizing agents 10.5

To Avoid:

10.6 Hazardous carbon dioxide

Decomposition or

carbon monoxide

Byproducts:

nitrogen oxides

Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects:

Acetaminophen - Toxicity Data: Oral LD50 (rat): 1944 mg/kg; Intraperitoneal LD50 (rat): 1205

mg/kg; Oral LD50 (mouse): 338 mg/kg; Intraperitoneal LD50 (mouse): 367 mg/kg; Oral TDLO

(woman): 325 mg/kg; Oral LDLO (human): 143 mg/kg;

Chronic Toxicological

Acetaminophen - Investigated as a drug, mutagen, reproductive effector, and tumorigen.

Effects:

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Acetaminophen RTECS Number: AE4200000

| CAS# | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|----------|--------------------------------------|------|------|-------|------|
| 103-90-2 | 4-Acetamidophenol | n.a. | 3 | n.a. | n.a. |

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 **Bioaccumulative** No data available.

Potential:

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.



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Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:

Not dangerous goods.

DOT Hazard Class: UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:

Not dangerous goods.

UN Number: Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS# | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | |
|----------|--------------------------------------|---|-----------|--------------|--|
| 103-90-2 | 4-Acetamidophenol | No | No | No | |
| CAS# | Hazardous Components (Chemical Name) | Other US EPA or State Lists | | | |
| 103-90-2 | 4-Acetamidophenol | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No | | | |

Regulatory Information

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement:

No.1272/2008.

Section 16. Other Information

Revision Date:

06/14/2017

Additional Information About

No data available.

This Product:

Company Policy or Disclaimer:

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.