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Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Information:



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

1.1 Product Code: 11203

Product Name: Phenylpiperazine (hydrochloride)

Synonyms: 1-phenyl-piperazine, dihydrochloride; NSC 38914; NSC 150847;

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

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Cayman Chemical Company

Web site address: www.caymanchem.com

GHS Classification	Placard	Key word	GHS hazard phrase	
Skin Corrosion/Irritation, Category 2	Exclamation	Warning	Causes skin irritation	
	point			
Serious Eye Damage/Eye Irritation, Category	Exclamation	Warning	Causes serious eye irritation	
2A	point			
Target Organ Systemic Toxicity (single	Exclamation	Warning	May cause respiratory irritation,or may cause drowsiness	
exposure), Category 3	point		and dizziness	

GHS Hazard Phrases: H315: Causes skin irritation.

H319: Causes serious eye irritation. H335: May cause respiratory irritation.

GHS Precaution Phrases: P264: Wash {hands} thoroughly after handling.

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

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

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

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

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

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

+1 (734)971-3335

lenses, if present and easy to do. Continue rinsing.

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

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

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

for breathing.

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

2.3 Adverse Human Health Effects and

Symptoms:

Causes skin irritation.

Causes serious eye irritation.

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

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

May cause respiratory irritation.

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



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Target Organs: No data available. Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3. Composition/Information on Ingredients				
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases
Phenylpiperazine (hydrochloride)	4004-95-9	100.0 %	223-654-0	R36/37/38

Section 4. First Aid Measures

4.1 **Description of First Aid Measures:**

4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

4.1.2 In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 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 20 minutes. Have eyes

examined and tested by medical personnel.

4.1.4 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.

Important Symptoms and Effects, 4.2

Both Acute and Delayed:

No data available.

Indication of any immediate medical

attention and special treatment needed:

No data available.

Section 5. Fire Fighting Measures

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

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

> Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

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

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

Section 6. Accidental Release Measures

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

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

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

6.2 **Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

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

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

Section 7. Handling and Storage

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

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.



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Hazard Label Information: Do not reuse this container. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection				
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV	Other Limits
Phenylpiperazine (hydrochloride)	4004-95-9	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe
Phenylpiperazine (hydrochloride)	4004-95-9	No data.	No data.	No data.

Protective Equipment Summary - Hazard

Label Information:

Compatible chemical-resistant gloves Eye wash station in work area Lab coat

glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

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

levels below recommended exposure limits.

8.2.2.1 Eye Protection: Safety glasses

8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

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

shower.

No data.

C10H14N2 • 2HCl

Wash thoroughly after handling.

Environmental Exposure Controls: No data available.

Physical and Chamical Proportios

Section	9. Physical and Chemical Properties				
9.1 Information on Basic Physical and Chemical Properties					
Physical States:	[] Gas [] Liquid [X] Solid				
Appearance and Odor:	A crystalline solid				
Melting Point:	No data.				
Boiling Point:	No data.				
Flash Pt:	No data.				
Evaporation Rate:	No data.				
Vapor Pressure (vs. Air or mm Hg):	No data.				
Vapor Density (vs. Air = 1):	No data.				
Specific Gravity (Water = 1):	No data.				
Solubility in Water:	No data.				
Solubility Notes:	$\sim\!10~mg/ml~in~PBS~(pH~7.2); \sim\!2~mg/ml~in~EtOH; \sim\!30~mg/ml~in~DMSO; \sim\!5~mg/ml~in~DMF;$				
Autoignition Pt:	No data.				
Explosive Properties:	No data available.				
Oxidizing Properties:	No data available.				
9.2 Other Information					

Molecular Weight: 235.20

Percent Volatile:

Formula:



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Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

10.4 Conditions To Avoid:No data available.

10.3 Polymerization: Will occur [X]

10.5 Incompatibility - Materials To Avoid: No data available.
 10.6 Hazardous Decomposition Or No data available.

Byproducts:

Section 11. Toxicological Information

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

Chronic Toxicological Effects: No data available.

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
Phenylpiperazine (hydrochloride)	4004-95-9	n.a.	n.a.	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.

Section 13. Disposal Considerations

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

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name

Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

European Community Hazard Symbol codes Xi: Irritant

European Community Risk and Safety Phrases

 $R36/37/38 \quad \hbox{- Irritating to eyes, respiratory system and skin.}$

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

 $S36/37/39 \quad \hbox{- Wear suitable protective clothing, gloves and eye/face protection.}$

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Phenylpiperazine (hydrochloride)	4004-95-9	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
Phenylpiperazine (hydrochloride)	4004-95-9	No	No	No	No

Regulatory Information Statement: This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European

Directive 67/548/EEC as amended.



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	Section 16. Other Information							
Revi	sion Date: 09/13/2013							
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	N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required							