

SAFETY DATA SHEET

Page: 1 of 6

Revision: 04/21/2018

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:** 24017

> **Product Name:** 1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)

Synonyms: 1-[(2,5-dimethoxyphenyl)methyl]-piperazine, monohydrochloride; 2C-Benzylpiperazine; 2-chloro

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: Inhalation, Category 4

Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 4 Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2

Specific Target Organ Toxicity (single exposure), Category 3

2.2 **Label Elements:**



GHS Signal Word: Warning

GHS Hazard Phrases:

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

GHS Precaution Phrases:

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

P264: Wash {hands} thoroughly after handling.

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



SAFETY DATA SHEET 1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)

Revision: 04/21/2018

to do. Continue rinsing.

P321: Specific treatment {see ... on this label}.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.

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.

Harmful if inhaled, swallowed, or in contact with skin.

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

May cause respiratory system irritation.

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
374897-99-1 NA	1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)	100.0 %	NA NA	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332 Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336

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.



SAFETY DATA SHEET

1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)

Revision: 04/21/2018

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

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

Protective Equipment and 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). **Emergency Procedures:**

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

Precautions:

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

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.

Avoid prolonged or repeated exposure. in Handling:

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:**

8.2 **Exposure Controls:**

8.2.1 Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne **Engineering Controls**

levels below recommended exposure limits. (Ventilation etc.):

8.2.2 Personal protection equipment:

Safety glasses **Eye Protection:**

Compatible chemical-resistant gloves **Protective Gloves:**

Other Protective Clothing: Lab coat

NIOSH approved respirator, as conditions warrant. **Respiratory Equipment**

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

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

Wash thoroughly after handling.

No data available.



SAFETY DATA SHEET 1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride) Revision: 04/21/2018

Section 9.	Physica	I and	Chemical	Properties
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	Se	ection 9. Physical and Chemical Properties			
9.1	Information on Basic Physical and Chemical Properties				
	Physical States:	[] Gas			
	Appearance and Odor:	A crystalline solid			
	pH:	No data.			
	Melting Point:	No data.			
	Boiling Point:	No data.			
	Flash Pt:	No data.			
	Evaporation Rate:	No data.			
	Flammability (solid, gas):	No data available.			
	Explosive Limits:	LEL: No data. UEL: No data.			
	Vapor Pressure (vs. Air o	r mm No data.			
	Hg):				
	Vapor Density (vs. Air = 1): No data.			
	Specific Gravity (Water =	1): No data.			
	Solubility in Water:	No data.			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperat	ure: No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Wei	ght: C13H20N2O2 • HCl 272.8			
		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.			
	Polymerization:	Will occur [] Will not occur [X]			
10.4	Conditions To Avoid:	No data available.			
10.5	Incompatibility - Materials	s strong oxidizing agents			
	To Avoid:				
10.6	Hazardous	carbon dioxide			
	Decomposition or	carbon monoxide			
	Byproducts:	hydrogen chloride			
		nitrogen oxides			
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SAFETY DATA SHEET

1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)

Revision: 04/21/2018

Section 11. Toxicological Information

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

Toxicological Effects:

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
374897-99-1	1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)	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.

12.2 Persistence and No data available.

Degradability:

12.3 No data available. **Bioaccumulative**

Potential:

12.4 **Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

12.6 No data available. Other adverse effects:

Section 13. Disposal Considerations

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

Section 14. Transport Information

LAND TRANSPORT (US DOT): 14.1

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class: UN/NA Number:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

AIR TRANSPORT (ICAO/IATA):

(hydrochloride)

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)		
374897-99-1	1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)	No	No	No		
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists				
374897-99-1	1-(2,5-Dimethoxybenzyl)piperazine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA				

PROP.65: No



1-(2,5-Dimethoxybenzyl)piperazine (hydrochloride)

Revision: 04/21/2018

Page: 6 of 6

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) Regulatory Information No.1272/2008. Statement:

Section 16. Other Information

Revision Date: 04/21/2018

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.