# **SIGMA-ALDRICH**

sigma-aldrich.com

SAFETY DATA SHEET

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Product name	: (±)-Chlorpheniramine maleate salt	
Product Number	: C3025	
Brand	: Sigma	
Product Use	: For laboratory research purposes.	
Supplier	: Sigma-Aldrich Canada Co. 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA : Sigma-Aldrich Corporation er Sigma-Aldrich Corporation 3050 Spruce St. St. Louis, Missouri 63103 USA	
Telephone	: +1 9058299500	
Fax	: +1 9058299292	
Emergency Phone # (For both supplier and manufacturer)	: +1-703-527-3887 (CHEMTREC)	
Preparation Information	<ul> <li>Sigma-Aldrich Corporation</li> <li>Product Safety - Americas Region</li> <li>1-800-521-8956</li> </ul>	
ZARDS IDENTIFICATION		
Emergency Overview		
WHMIS Classification		
D1B Toxic Mate	vial Causing Immediate and Soriaus Tavia by ingestion	
Toxic Effe	erial Causing Immediate and Serious Toxic by ingestion	
GHS Classification Acute toxicity, Oral (Cates	gory 4)	
GHS Label elements, inc	cluding precautionary statements	
Pictogram		
Signal word	Warning	
Hazard statement(s) H302	Harmful if swallowed.	
Precautionary statement( P264 P270 P301 + P312 + P330	<ul> <li>Wash skin thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.</li> </ul>	
P501	Rinse mouth. Dispose of contents/ container to an approved waste disposal plant.	
	2.5 ccc c. contente, contantel to an approved hade depeda plant	
HMIS Classification Health hazard: Flammability:	2 0	
Physical hazards:	0	
Potential Health Effects		
Inhalation Skin	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.	

Eyes	May cause eye irritation.
Ingestion	Toxic if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	:	C <sub>16</sub> H <sub>19</sub> ClN <sub>2</sub> · C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
Molecular weight	:	390.86 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Chlorphenamine hydrogen maleate			
113-92-8	204-037-5	-	<=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

Flush eyes with water as a precaution.

#### 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.

# Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

#### 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.

Light sensitive.

# 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.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# Eye protection

Safety glasses with side-shields conforming to EN166 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	solid
Colour	No data available
Safety data	
рН	No data available
Melting point/freezing point	Melting point/range: 130 - 135 °C (266 - 275 °F) - lit.
Boiling point	No data available
Flash point	No data available

Ignition temperature Auto-ignition	No data available No data available
temperature	
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
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.

#### Possibility of hazardous reactions No data available

Conditions to avoid No data available

Materials to avoid Strong oxidizing agents

#### Hazardous decomposition products

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

# **11. TOXICOLOGICAL INFORMATION**

# Acute toxicity

Oral LD50 LD50 Oral - Rat - 306 mg/kg

Inhalation LC50 No data available

Dermal LD50 No data available

Other information on acute toxicity No data available

**Skin corrosion/irritation** No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitisation** No data available

Germ cell mutagenicity

No data available

# Carcinogenicity

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. May cause respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause 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: US6504000

# **12. ECOLOGICAL INFORMATION**

# Toxicity

No data available

#### Persistence and degradability No data available

**Bioaccumulative potential** No data available

Mobility in soil No data available

**PBT and vPvB assessment** No data available

#### Other adverse effects

No data available

# **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.

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

# DOT (US)

Not dangerous goods

# IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

# **15. REGULATORY INFORMATION**

# **WHMIS Classification**

- D1B
- Toxic Material Causing Immediate and Serious Toxic by ingestion Toxic Effects

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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