

# Safety Data Sheet

## Methylphenidate Hydrochloride

Revision date : 2012/06/27

Version: 1.1

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(30273669/SDS\_GEN\_CA/EN)

### 1. Product and Company Identification

Company

BASF Canada Inc.  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666  
BASF HOTLINE: (800) 454-COPE (2673)

Synonyms:

METHYLPHENIDATE HYDROCHLORIDE

### 2. Hazards Identification

Emergency overview

Toxic if swallowed.  
May cause sensitization by skin contact.  
Contains a suspect carcinogen.  
CAN FORM EXPLOSIVE DUST-AIR MIXTURES.

State of matter: solid  
Colour: off-white  
Odour: odourless

Potential health effects**Acute toxicity:**

Of moderate toxicity after single ingestion.

**Irritation / corrosion:**

Not irritating to the eyes. Not irritating to the skin.

**Sensitization:**

A sensitizing effect on particularly sensitive individuals cannot be excluded.

**Chronic toxicity:**

**Carcinogenicity:** In long-term animal studies in which the substance was given in high concentrations by feed, a carcinogenic effect was observed.

**Reproductive toxicity:** After the uptake of low doses an impairment of fertility will not be expected in humans.

**Teratogenicity:** A teratogenic potential cannot be excluded.

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**Genotoxicity:** In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests.

**Signs and symptoms of overexposure:**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**Potential environmental effects**

**Aquatic toxicity:**

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Acutely harmful for aquatic organisms.

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### 3. Composition / Information on Ingredients

**CAS Number**

298-59-9

**Content (W/W)**

80.0 - 100.0 %

**Hazardous ingredients**

2-Piperidineacetic acid, .alpha.-phenyl-, methyl ester, hydrochloride

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### 4. First-Aid Measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention. After inhalation of decomposition products: Inhale corticosteroid dose aerosol.

**If on skin:**

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

**If swallowed:**

Rinse mouth and then drink plenty of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention.

**Note to physician**

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Administer corticosteroids (e.g. Prednisolon) in case of toxic lung oedema.

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### 5. Fire-Fighting Measures

Flash point:

not applicable

Autoignition:

not determined

Lower explosion limit:

not determined

Upper explosion limit:

not determined

Flammability:

not highly  
flammable

**Suitable extinguishing media:**

carbon dioxide, dry powder, water spray, alcohol-resistant foam

**Unsuitable extinguishing media for safety reasons:**

water jet

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### **Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxides  
Under special fire conditions traces of other toxic substances are possible.

Dust explosion hazard.

### **Protective equipment for fire-fighting:**

Wear self-contained breathing apparatus and chemical-protective clothing.

### **Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes.

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## 6. Accidental release measures

### **Personal precautions:**

Do not breathe dust. Avoid dust formation. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation. Information regarding personal protective measures see, chapter 8.

### **Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Discharge into the environment must be avoided.

### **Cleanup:**

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### **Handling**

#### **General advice:**

Avoid dust formation. Avoid inhalation of dusts/mists/vapours. Avoid contact with the skin, eyes and clothing. Ensure thorough ventilation of stores and work areas. Product should be worked up in closed equipment as far as possible.

#### **Protection against fire and explosion:**

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. The product is capable of dust explosion. Avoid dust formation.

**Avoid whirling up the material/product because of the danger of dust explosion.**

### **Storage**

#### **General advice:**

Keep container tightly closed and dry.

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## 8. Exposure Controls and Personal Protection

### **Personal protective equipment**

#### **Respiratory protection:**

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

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### Hand protection:

Chemical resistant protective gloves, Suitable materials, butyl rubber (butyl) - 0.7 mm coating thickness, nitrile rubber (NBR) - 0.4 mm coating thickness, chloroprene rubber (CR) - 0.5 mm coating thickness

### Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

### Body protection:

Body protection must be chosen based on level of activity and exposure.

### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Do not breathe dust. Females of childbearing age should not come into contact with the product. Keep separated from food stuffs and feed stocks. Employees should shower at the end of the shift. When using, do not eat, drink or smoke.

## 9. Physical and Chemical Properties

Form:	crystalline, powder	
Odour:	odourless	
Odour threshold:	No data available.	
Colour:	off-white	
Melting point:	> 217 °C	
Boiling point:		dropped
Vapour pressure:		not determined
Relative density:		Study does not need to be conducted.
Bulk density:		not determined
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):	0.38	
Viscosity, dynamic:		not relevant
Viscosity, kinematic:		not relevant
Solubility in water:	100 g/l 1,000 g/l	( 20 °C) ( 70 °C)
Solubility (qualitative):	soluble solvent(s): Ethanol, methanol, trichloromethane, dimethyl sulfoxide	

## 10. Stability and Reactivity

### Conditions to avoid:

Avoid dust formation. Avoid electro-static charge.

### Substances to avoid:

acids, alkalies, oxidizing agents, reducing agents

### Hazardous reactions:

Dust explosion hazard. Evolution of toxic gases/vapours.

### Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxides, toxic gases/vapours

### Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

### Oxidizing properties:

not fire-propagating

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### 11. Toxicological information

#### Acute toxicity

##### Oral:

Type of value: LD50

Species: rat

Value: 350 mg/kg

#### Irritation / corrosion

##### Skin:

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

##### Eye:

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

#### Other Information:

Caution - substance not yet fully tested.

Females of childbearing age should not come into contact with the product.

### 12. Ecological Information

#### Degradability / Persistence

##### Biological / Abiological Degradation

Evaluation:

Biodegradable.

Not readily biodegradable (by OECD criteria).

#### Bioaccumulation

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### 13. Disposal considerations

#### Waste disposal of substance:

Observe national and local legal requirements.

#### Container disposal:

Dispose of in accordance with national, state and local regulations.

### 14. Transport Information

#### Land transport

TDG

Not classified as a dangerous good under transport regulations

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### Sea transport IMDG

Not classified as a dangerous good under transport regulations

### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical DSL, CA released / listed

Pharma DSL, CA released / listed

**WHMIS classification:** D1B: Materials Causing Immediate and Serious Toxic Effects - Toxic material

D2A: Materials Causing Other Toxic Effects - Very toxic material

D2B: Materials Causing Other Toxic Effects - Toxic material



**THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.**

## 16. Other Information

Recommended use: Pharmaceutical agent

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

### MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

BASF HOTLINE (800) 454 – COPE (2673)

MSDS Prepared on: 2012/06/27

END OF DATA SHEET