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.
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.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Hazardous ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>298-59-9</td>
<td>80.0 - 100.0 %</td>
<td>2-Piperidineacetic acid, .alpha.-phenyl-, methyl ester, hydrochloride</td>
</tr>
</tbody>
</table>

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.

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
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.

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.

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.

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.
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

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

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
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
Safety Data Sheet
Methylphenidate Hydrochloride

Revision date: 2012/06/27 Page: 6/6
Version: 1.1

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
Pharma

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:
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MSDS Prepared on: 2012/06/27

END OF DATA SHEET