1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: 8-Hydroxy Amoxapine

Catalogue #: H797805

Company: Toronto Research Chemicals
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Toronto, ON M3J 2J8
CANADA

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Emergency#: +14166659696
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2. HAZARDS IDENTIFICATION

WHMIS Classification
D1B: Toxic Material Causing Immediate and Serious Toxic Effects
     Toxic by ingestion

HMIS Classification
Health hazard: 2
Chronic Health hazard: *
Flammability: 0
Physical hazards: 0

Target Organs
Central nervous system, Heart

Potential Health Effects
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: Toxic if swallowed.

GHS Classification
Acute toxicity, Oral (Category 4)

GHS Label elements, including precautionary statements
Signal word: Warning
Hazard statement
H302: Harmful if swallowed.
Precautionary statements
P301/P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P501: Dispose of contents/container to an approved waste disposal plant.

GHS Label Pictogram
3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Formula: \( \text{C}_{17}\text{H}_{16}\text{ClN}_{3}\text{O} \)

Molecular Weight: 329.78

CAS Registry #: 61443-78-5

EC#: 2-Chloro-11-(1-piperazinyl)-dibenzo[b,f][1,4]oxazepin-8-ol; 8-Hydroxyamoxapin;

Synonyms:

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
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Use personal protective equipment. Avoid dust or aerosol formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**Environmental precautions**
Do not let product enter drains.

**Methods and materials for containment and cleaning up**
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). 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 or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place. Store at -20°C.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.

Eye protection
Face shield and safety glasses 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 fume hood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Pale beige solid

Safety data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling point</td>
<td>N/A</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>N/A</td>
</tr>
<tr>
<td>Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point</td>
<td>242-247°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>N/A</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Water solubility</td>
<td>N/A</td>
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</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

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, hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Irritation and corrosion
no data available

Sensitization
no data available

Reproductive toxicity/Teratogenicity
no data available

Additional Information
RTECS: no data available

Carcinogenicity
IARC: Not classified as a known, possible or probable carcinogen by IARC.

Toronto Research Chemicals - H797805
Potential health effects
Inhalation   May be harmful if inhaled. May cause respiratory tract irritation.
Skin        May be harmful if absorbed through skin. May cause skin irritation.
Eyes        May cause eye irritation.
Ingestion   Toxic if swallowed.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Persistence and degradability</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
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</table>

<table>
<thead>
<tr>
<th>Mobility in soil</th>
<th>PBT and vPvB assessment</th>
<th>Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
<td>no data available</td>
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</tbody>
</table>

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.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)/IMDG/IATA
not dangerous goods

15. REGULATORY INFORMATION

DSL Status
Product is not on the Canadian DSL or NDSL list.

WHMIS Classification
D1B          Toxic Material Causing Immediate and Serious Toxic Effects    Toxic by ingestion

16. OTHER INFORMATION

Further information
Copyright 2010 Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is not to be deemed as all-inclusive and is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.

Toronto Research Chemicals - H797805