

## **Safety Data Sheet**

#### **Section 1. Identification**

Common/Trade

: Duloxetine Delayed-Release Capsules USP

name

Recommended

use

: Pharmaceutical industry: Dosage form Therapeutic category: Antidepressant.

This Safety Data Sheet has been provided to inform workers of the safety, health and environmental information associated with this product. It is to be used by people handling the material within the workplace only. It is not meant for patients taking the medication. Patients should consult with their physician, pharmacist or the information

: As per 29 CFR 1910.1200 (b)(6) and according to Article 1, item 5 a) of CLP Regulation (EC) 1272/2008, medicinal

provided on the label or on the insert.

Recommended restrictions

: No other uses are advised.

Supplier : Canada U.S.

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Emergency phone

: United States/Canada (Chemtrec) 1-800-424-9300 or

+1 703-527-3887 (24 hours)
For general information call:

1-(416)-749-9300 ext. 8483 (8 AM-4 PM)

#### Section 2. Hazards Identification

Classification of the substance or mixture

products (drugs) when it is in the solid, final form for direct administration to the patient or are packaged by the manufacturer for sale to consumers in a retail establishment are exempt from the requirements of classification, labels and SDS's.

GHS label elements: Exempt from requirements.

Hazards not otherwise classified

: Exempt from requirements.

| Section 3. Composition/Information on Ingredients  |             |         |  |  |  |  |
|--|-------------|---------|--|--|--|--|
| Name   | CAS#        | % (w/w) |  |  |  |  |
| Duloxetine hydrochloride   | 136434-39-9 | 30 - 60 |  |  |  |  |
| Specific chemical identity and/or percentage of composition has been withheld as a trade secret. |             |         |  |  |  |  |

Chemical name : Not available

Chemical family : Naphthyl ether amine

Molecular

**Synonyms** 

weight

: Not applicable.

: Not available.

Chemical

: Not applicable.

formula

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#### Section 4. First Aid Measures

Eye contact

Flush with copious quantities of water. If irritation persists, obtain medical advice.

Skin contact

: Flush with copious amounts of water. Seek medical attention if irritation persist.

Inhalation

Remove from exposure. Persons developing serious hypersensitivity reactions must receive immediate medical attention. If not breathing give artificial respiration. If breathing is difficult give oxygen.

Ingestion

Never give anything by mouth if victim is losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical

attention.

Potential acute and delayed health effects

Refer to Sec. 11

## Section 5. Fire Fighting Measures

Specific hazar arising from the chemical

**Specific hazard**: During fire, gases hazardous to health may be formed.

Suitable extinguishing media and special protective equipment for firefighters Extinguisher media: water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials. Special fire fighting procedures: As with all fires, evacuate personnel to safe area. Firefighters should use self-contained breathing equipment and protective clothing.

#### Section 6. Accidental Release Measures

Methods and materials for containment and cleaning up Contain and clean up spillage and place into an appropriate labeled waste disposal container. Avoid generating dust or aerosols. Wash spill surface using appropriate cleaning solutions. Should clothing be contaminated, wash before reuse

Protective equipment and personal precautions Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, refer to section 8 of the SDS.

## Section 7. Handling and Storage

Precautions for safe handling

: Avoid breathing dust.

Conditions for safe storage

: Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F).

#### Section 8. Exposure Controls/Personal Protection

# Engineering Controls

The engineering control measures appropriate for a particular worksite depend on how this material is handled and on the extent of exposure. Ensure that control measures are designed to comply with occupational, environmental, fire and other applicable regulations. Control measures can include mechanical ventilation (local or general) and process enclosure. Administrative controls and personal protective equipment may also be required.

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#### Personal **Protection**

Follow all appropriate safe work procedures and local regulations for disposal. Use only licensed disposal and waste hauling companies.

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PERSONAL PROTECTIVE EQUIPMENT/RESPIRATORY PROTECTION GUIDELINES: Under normal work conditions, the use of respiratory protective equipment is not expected to be required. If the physical state of the finished product is altered by crushing, grinding or breakage or for spill cleaning, appropriate PPE may be required that includes NIOSH approved respirators.

EYE/FACE PROTECTION: Wear approved safety eyewear if eye contact is possible.

SKIN PROTECTION: Where there is a risk of contact when handling, wear suitable skin protection (e.g., gloves, lab coat/uniform) having resistance to the product.

HYGIENE MEASURES: In the event clothing becomes contaminated, remove promptly. Launder before use. When handlings, do not eat, drink or smoke. Wash hands thoroughly after handling this material. Maintain good housekeeping.

**Occupational** exposure limits : Not established.

#### Section 9. Physical and Chemical Properties

Physical state and appearance : Capsules.

: Not available. pН

Odor : Not available.

Melting point/ Freezing point

Specific gravity

**Volatility** 

: Not available.

: Not available.

Not available. Odor threshold

No additional remark.

Not available.

**Boiling point** 

· Not available. **Conditions of** 

instability

: Not available. **Decompositon** 

temperature

Not available.

 Not available. **Partition** 

Coefficient:

: Not available. **Evaporation rate** 

Not available. Viscosity

: Not available. Vapor density : Not available. Relative density

Not available. Flash points

Vapor pressure

Not available. Flammable limits

: Not available. **Autoignition** temperature

Emits toxic fumes under fire conditions.

: Not available. Solubility

## Section 10. Stability and Reactivity

: Not available. Reactivity

Chemical **Stability** 

**Flammability** 

: The product is stable.

Possibility of hazardous reactions

: Not available.

**Hazardous** decomp.

products

• When heated to decomposition material emits toxic fumes.

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Incompatible materials/
Conditions to

: Not available

avoid

## Section 11. Toxicological Information

Information on the likely routes of exposure

As the product is a solid dosage form, the major route of entry is ingestion. Other routes of entry, including

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inhalation, skin and eye contact may occur only under certain circumstances.

Toxicity data : LD50: 491 mg/kg (oral-male rat) LD50: 279 mg/kg (oral-female rat)

Skin, rabbit, 1000 mg/kg - no deaths or toxicity

Irritancy test: Rabbit-eye: corrosive Rabbit-skin: slight irritant

Delayed and immediate effects and also chronic effects from short and long term exposure

: Possible hypersensitization.

Carcinogenicity: Not listed as carcinogen by IARC, NTP, ACGIH, or OSHA. In female mice receiving duloxetine at 140 mg/kg/day (11 times the maximum recommended human dose [MRHD, 60 mg/day] and 6 times the human dose of 120 mg/day on a mg/m 2 basis), there was an increased incidence of hepatocellular adenomas and carcinomas. The no-effect dose was 50 mg/kg/day (4 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m 2 basis). Reproductive Toxicity: Duloxetine administered orally to either male or female rats prior to and throughout mating at doses up to 45 mg/kg/day (7 times the maximum recommended human dose of 60 mg/day and 4 times the human dose of 120 mg/day on a mg/m 2 basis) did not alter mating or fertility.

Teratogenicity: Pregnancy Category: C. In animal reproduction studies, duloxetine has been shown to have adverse effects on embryo/fetal and postnatal development.

Mutagenicity: Duloxetine was not mutagenic in the in vitro bacterial reverse mutation assay (Ames test) and was not clastogenic in an in vivo chromosomal aberration test in mouse bone marrow cells.

#### Remark

Medical conditions aggravated by exposure: Hypersensitivity to material.

Symptoms related to the physical, chemical and toxicological characteristics : Most common adverse reactions (≥5% and at least twice the incidence of placebo patients): nausea, dry mouth, somnolence, constipation, decreased appetite, and hyperhidrosis.

#### Section 12. Ecological Information

**Ecotoxicity**: Not available.

Persistence and degradability

: Not available.

Bioaccumulative potential

: Not available.

Mobility in soil

: Not available.

Other adverse

: Not available.

effects

#### Section 13. Disposal Considerations

Waste Disposal : Follow all appropriate safe work procedures and local regulations for disposal. Use only licensed disposal and waste hauling companies.

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| Section 14. Transport information |              |                      |                |                  |       |  |  |
|-----------------------------------|--------------|----------------------|----------------|------------------|-------|--|--|
| Regulatory information            | UN<br>number | Proper shipping name | Class          | Packing<br>group | Label | Additional information (e.g., special precautions, environmental hazards, transport in bulk) |  |
| TDG- road<br>Canada/U.S.          |              |                      | Not regulated. |                  |       |  |  |
| ICAO-Air                          |              |                      | Not regulated. |                  |       |  |  |
| ADR                               |              |                      | Not regulated. |                  |       |  |  |
| IMDG Class                        |              |                      | Not regulated. |                  |       |  |  |

## **Section 15. Regulatory Information**

Canada Regulations : Covered by Food & Drug Act and therefore not regulated under WHMIS

Not on the DSL list.

Other Regulations : Not available.

### **Section 16. Other Information**

References : RxList Monographs

U.S. Pharmacopeia Apotex Product Monograph

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#### **Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.