# Safety Data Sheet - Version 5.0

**Preparation Date** 7/12/2016

**Latest Revision Date (If Revised)**

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Chemical Name** 7-Hydroxy Quetiapine (1.0 mg/mL in Methanol)

**Catalogue #** KIT1245

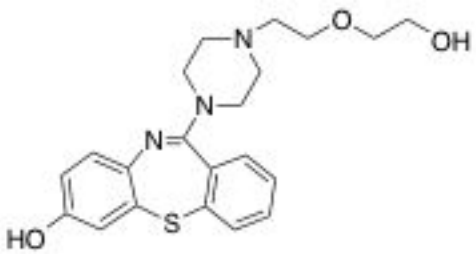
### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Uses** To be used only for scientific research and development. Not for use in humans or animals.

### 1.3 Details of the Supplier of the Safety Data Sheet

**Company** Toronto Research Chemicals
2 Brisbane Road
Toronto, ON M3J 2J8
CANADA

**Telephone** +14166659696
**FAX** +14166654439
**Email** orders.trc@lgcgroup.com




### 1.4 Emergency Telephone Number

**Emergency#** +1(416) 665-9696 between 0800-1700 (GMT-5)

## 2. HAZARDS IDENTIFICATION

### 2.1/2.2 Classification of the Substance or Mixture and Label Elements

**GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)**

Flammable Liquids (Category 2)
Acute Toxicity, Oral (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Dermal (Category 3)
Specific Target Organ Toxicity, Single Exposure (Category 1)
Hazardous to the Aquatic Environment, Acute Hazard (Category 3)

**GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)**

**Signal Word** Danger

**GHS Hazard Statements**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H331 | Toxic if inhaled. |
| H311 | Toxic in contact with skin. |
| H370 | Causes damage to organs. |
| H402 | Harmful to aquatic life. |

**GHS Precautionary Statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301/P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P307/P311 | IF exposed: Call a POISON CENTER or doctor/physician. |

### 2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Molecular Formula:** C□□H□□N□O□S **Molecular Weight:** 399.51

**CAS Registry #:** 139079-39-3 **EC#:**

**Synonyms**

11-[4-[2-(2-Hydroxyethoxy)ethyl]-1-piperazinyl]dibenzo[b,f][1,4]thiazepin-7-ol; ICI214227;

### 3.2 Mixtures

| Ingredient | CAS# | EC# | Index-No. | %Composition |
|---|---|---|---|---|
| 7-Hydroxy Quetiapine | 139079-39-3 | N/A | N/A | 0.1% |
| Methanol | 67-56-1 | 200-659-6 | 603-001-00-X | 99.9% |

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**General Advice**
If medical attention is required, show this safety data sheet to the doctor.

**If Inhaled**
If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

**In Case of Skin Contact**
Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

**In Case of Eye Contact**
Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

**If Swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special Hazards Arising from the Substance or Mixture

Carbon oxides, Nitrogen oxides, Sulfur oxides

### 5.3 Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary. Use personal protection equipment.

### 5.4 Further Information

No data available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Adequate ventilation must be provided to ensure vapours or mists are not inhaled. Vapours are heavier than air and may accumulate in low areas. All sources of ignition, including sources of static discharge, must be removed from area.

### 6.2 Environmental Precautions

Material should not be allowed to enter the environment. Prevent further spillage or discharge into drains, if safe to do so.

### 6.3 Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13).

**6.4 Reference to Other Sections**

For protective equipment, refer to Section 8. For disposal, see Section 13.

## 7. HANDLING AND STORAGE

**7.1 Precautions for Safe Handling**

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of vapours and mists. Remove all sources of ignition and take precautionary measures to prevent the buildup of electrostatic discharge (ground and bond containers as appropriate). No smoking, eating or drinking around this material. Wash hands after use.

**7.2 Conditions for Safe Storage, Including any Incompatibilities**

Ensure container is kept securely closed before and after use. Keep in a well ventilated area and do not store with strong oxidizers or other incompatible materials (see Section 10).

Storage conditions: -20°C

**7.3 Specific End Uses**

For scientific research and development only. Not for use in humans or animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters**

**Components with workplace control parameters**

| Components | CAS-No. | Value | Control parameters | Basis |
|---|---|---|---|---|
| Methanol | 67-56-1 | TWA | 200.000000 ppm<br>262.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| **Remarks** | Substance may be readily absorbed through intact skin | | | |
| | | STEL | 250.000000 ppm<br>328.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | Substance may be readily absorbed through intact skin | | | |
| | | TWA | 200.000000 ppm | Canada. British Columbia OEL |
| | Contributes significantly to the overall exposure by the skin route. | | | |
| | | STEL | 250.000000 ppm | Canada. British Columbia OEL |
| | Contributes significantly to the overall exposure by the skin route. | | | |
| | | TWAEV | 200.000000 ppm<br>262.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | Skin (percutaneous) | | | |
| | | STEV | 250.000000 ppm<br>328.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | Skin (percutaneous) | | 200.000000 ppm | USA. ACGIH Threshold Limit Values (TLV) |
| | | STEL | 250.000000 ppm | USA. ACGIH Threshold Limit Values (TLV) |

**8.2 Exposure Controls**

**Appropriate Engineering Controls**

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

**Personal Protective Equipment**

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

**Eye/Face Protection**
Safety glasses or safety goggles. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

**Skin Protection**
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as “low chemical resistant” or “waterproof” by EU standard EN 374. Unrated gloves are not recommended.
Suggested gloves: AnsellPro nitrile gloves style 92-500 or 92-600, 5 mil thickness.
Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated “chemical resistant” as per EN 734 with the resistance codes corresponding to the anticipated use of the material.
Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.
Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

**Body Protection**
Fire resistant (Nomex) lab coat or coveralls.

**Respiratory Protection**
Recommended respirators are NIOSH-approved OV/Multi-Gas/P95 or CEN-approved ABEK-P2 respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on Basic Physical and Chemical Properties**

**A) Appearance**
Colourless Solution

**B) Odour**
No data available

**C) Odour Threshold**
No data available

**D) pH**
No data available

**E) Melting Point/Freezing Point**

**F) Initial Boiling Point/Boiling Range**
No data available

**G) Flash point**
9.7 °C (49.5 °F) - closed cup

**H) Evaporation Rate**
No data available

**I) Flammability (Solid/Gas)**
No data available

**J) Upper/Lower Flammability/Explosive Limits**
LEL: 6%(V) UEL: 35%(V)

**K) Vapour Pressure**
No data available

**L) Vapour Density**
No data available

**M) Relative Density**
No data available

**N) Solubility**
Methanol

**O) Partition Coefficient: n-octanol/water**
No data available

**P) Auto-Ignition Temperature**
No data available

**Q) Decomposition Temperature**
No data available

**R) Viscosity**
No data available

**S) Explosive Properties**
No data available

**T) Oxidizing Properties**
No data available

**9.2 Other Information**
no data available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**
No data available.

**10.2 Chemical Stability**
Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

Vapours may form explosive mixture with air.

### 10.4 Conditions to Avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5 Incompatible Materials

Acids, Oxidizing agents, Alkali metals, Acid chlorides, Acid anhydrides, Reducing agents, Phosphorus halides.

### 10.6 Hazardous Decomposition Products

**In the event of fire:** See section 5. **Other decomposition products:** No data available.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

#### A) Acute Toxicity

**Oral LD50:** No data available.

**Dermal LD50:** No data available.

**Inhalation LC50:** No data available.

#### B) Skin Corrosion/Irritation

No data available

#### C) Serious Eye Damage/Irritation

No data available

#### D) Respiratory or Skin Sensitization

No data available

#### E) Germ Cell Mutagenicity

No data available

#### F) Carcinogenicity

No data available

#### G) Reproductive Toxicity/Teratogenicity

No data available

#### H) Single Target Organ Toxicity - Single Exposure

No data available

#### I) Single Target Organ Toxicity - Repeated Exposure

No data available

#### J) Aspiration Hazard

No data available

#### K) Potential Health Effects and Routes of Exposure

**Inhalation**

Toxic 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.

#### L) Signs and Symptoms of Exposure

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

#### M) Additional Information

RTECS: Not available.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistance and Degradability

No data available.

### 12.3 Bioaccumulative Potential

No data available.

### 12.4 Mobility in Soil

No data available.

### 12.5 Results of PBT and vPvB Assessment

No data available.

**12.6 Other Adverse Effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods**

**A) Product**

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

**B) Contaminated Packaging**

Dispose of as above.

**C) Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## 14. TRANSPORT INFORMATION

**14.1 UN Number**

DOT (US): UN1230 IATA: UN1230 IMDG: UN1230 ADR/RID: UN1230

**14.2 UN Proper Shipping Name**

DOT (US)/IATA:
Methanol, solution

IMDG/ARD/RID:
METHANOL, SOLUTION

**14.3 Transport Hazard Class(es)**

DOT (US): 3 IATA: 3 (6.1) IMDG: 3 (6.1) ADR/RID: 3

**14.4 Packing Group**

DOT (US): II IATA: II IMDG: II ADR/RID: II

**14.5 Environmental Hazards**

DOT (US): None IATA: None IMDG: None ADR/RID: None

**14.6 Special Precautions for User**

None

## 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**A) Canada**

**DSL/NDSL Status:** This product or a component of this product is registered on the Canadian DSL/NDSL.

**B) United States**

**TSCA Status:** This product or a component is listed on the US EPA TSCA.

**C) European Union**

**ECHA Status:** This product or a component is registered with the EU ECHA.

**15.2 Chemical Safety Assessment**

No data available

## 16. OTHER INFORMATION

**16.1 Revision History**

Original Publication Date: 7/12/2016

**16.2 List of Abbreviations**

| | |
|---|---|
| LD50 | Median lethal dose of a substance required to kill 50% of a test population. |
| LC50 | Medial lethal concentration of a substance required to kill 50% of a test population. |
| LDLo | Lowest known lethal dose |
| TDLo | Lowest known toxic dose |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |

**16.3 Further Information**

**This Safety Data Sheet contains 16 sections. All 16 sections must be present for this document to be valid.**