

MATERIAL NAME: PRAZIQUANTEL

DOCUMENT NO.:  
SDS/008/R0

EFFECTIVE DATE: 28/08/2019

**1. Identification of the substance / Preparation and of the company / Undertaking****Identification of the product**

Product Name: PRAZIQUANTEL

**Manufacturer / supplier identification**

M/s. Solara Active Pharma Sciences Ltd.,  
120 A&B, 36, 120P & 121, Industrial Area,  
Baikampady, New Mangalore,  
Tel: 0091-824-2402100, Fax : 0091-824-2402256

**2. Hazard identification****OSHA hazard(s):** Toxic by inhalation**GHS Classification:**

Acute toxicity, Oral (Category 3)  
Eye irritation (Category 2B)  
Skin sensitization (Category 3)  
Acute toxicity, Inhalation (Category 5)

**Label elements:****Pictograms:****Signal word:** Warning**Hazard statement:****Prevention:**

H302 - Harmful if swallowed.  
H320 - Cause eye irritation.  
H317 - May cause skin reaction  
H335 - May cause respiratory irritation

**Precautionary statements:**

P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P281 - Use personal protective equipment as required.

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**Response:**

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if You feel unwell.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

**Storage:** No data available**Specific target organ Toxicity:** Not Available**Disposal:**

501 - Dispose of contents / container in accordance with local / regional / national / international regulation.

**3. Composition / Information on ingredients:**

Synonyms: 2-Cyclohexylcarbonyl-1,2,3,6,7,1 1b-hexahydro-4H-pyrazino(2,1Aa)isoquinolin-4-one

CAS-No- 55268-74-1

Molecular Weight: 312.41 g/mol

Molecular Formula: C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>**4. First Aid Measures****Skin :** Wash off with plenty of soap & copious amount of water. Immediately remove contaminated clothing and shoes. Wash Clothing before reuse. Call a physician.**Eye :** Rinse out with plenty of water for at least 15 minutes with the eyelid held wide open. Immediately summon eye specialist.**Swallowing:** Wash out mouth with water provided person is conscious. Do NOT induce Vomiting. Call a physician.**Inhalation :** Remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.**Ingestion :** Rinse mouth. Get medical attention if symptoms occur.

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**5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** For small fires, use media such as foam, dry chemical or carbon dioxide. For large fires, use media such as foam, dry chemical, carbon dioxide or water.

**Unsuitable extinguishing media:** None known.

**Specific hazards :** Emits toxic fumes under fire conditions.

**Special protective equipment and precautions for fire fighter:** Wear self-contaminated breathing apparatus and protective clothing to prevent contact with skin and eyes

**Specific methods:** Cool containers exposed to flames with water until well after the fire is out.

**6. Accidental Release Measures**

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Remove all Sources of ignition. Provide ventilation.

**7. Handling and Storage**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty Containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or Open flames.

**Storage Condition:** Preserve in a well – closed, light resistant containers. Store at 25° C, excursions permitted between 15° C to 30 ° C

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**8. Exposure Controls / Personal Protection**
**Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

**Ventilation System:** Provide local exhaust ventilation. Ventilation equipment should be explosion-proof if explosive concentrations of dust or fumes are present.

**Personal protective equipment**

**Respiratory Protection:** Required. Any self-contained breathing apparatus that has a full face-piece and is operated in a pressure-demand or other positive pressure mode.

**Eye Protection:** Required. Maintain eye wash fountain and quick-drench facilities in work area.

**Hand Protection:** Handle with gloves. Gloves must be inspected prior to use.

**OEL Value** – 5 mg/m<sup>3</sup>.

**9. Physical and Chemical Properties**

Form	:	Powder
Colour	:	White
Odour	:	Not available
pH value	:	Not available
Density / SG	:	1.0630 g/cm <sup>3</sup>
Melting temperature	:	135-141°C
Boiling temperature	:	Not available
Auto ignition temperature	:	Not available
Flash point	:	Not available
Explosion limit	:	Not available
Solubility	:	Very slightly soluble in water, freely soluble in alcohol and chloroform

**Powder test reports (praziquantel):**

Burning test: At room temperature: Class – 03 (Localized combustion or glowing Without flames)

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Dust explosion test: St 2h (violent explosion)

Percussion test (Fall hammer test): Negative.

**Powder resistivity test:**

 Specific powder (bulk) resistivity:  $> E + 12 \text{ Ohm}\cdot\text{m}$ 

Measured temperature: 24 °C

Measured humidity: 50%

**Minimum ignition energy:**

Result without inductance, L = 0 mH

 $1\text{mJ} < \text{MIE} < 3 \text{ mJ} / E_s = \mathbf{2.4 \text{ mJ}}$ 
**Minimum ignition temperature: 360 °C**
**Exothermic decomposition:**

Endotherm: Onset temperature – 130 °C.

 Exotherm: Onset temperature: 278 °C; Peak – 344 °C;  $\Delta T$  (at peak) – 3 °C.

\*Endotherm can mask exothermic decomposition.

**Exothermic decomposition by fresh air stream (Greiner Oven):** No apparent exothermic decomposition till 120 °C, above which sample melts.

**Deflagration (Screening test):**

Screened out, Negative

Spontaneous decomposition: No

**Explosion severity (  $P_{\text{max}}$  and  $K_{\text{st}}$  ):**
 $P_{\text{max}} = 4.6 \text{ bar}$ 
 $(dP/dT)_{\text{Max}} = 1102 \text{ bar/s}^{-1}$ 
 $K_{\text{st}} \text{ value} = 299 \text{ bar}\cdot\text{m}\cdot\text{s}^{-1}$ 
 $\text{St class} = 2$

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## Note:

- No safety system design details can be produced without exact engineering details of the plant, its associated equipment or its location.
- This material is a dust explosion hazard. Stringent precautions against static ignition are required when handling this dust.
- This material has low minimum ignition energy (MIE) of 2.4 mJ. Personal must be grounded by means of conductive footwear and flooring wherever explosive concentrations are possible. Personal shall be prevented from smoking and using unapproved electrical equipment in the area.
- The material will self-ignite as a dust cloud at temperature 360 °C.
- No apparent exothermic decomposition till 120 °C in presence of fresh air stream above which sample melts.
- No explosion detected at concentrations of 125 mg<sup>-3</sup> and below. Due to dust clouds not being homogenous, the measured values for the explosion severity and the minimum explosible concentration may deviate by + or – 10 %.

**10. Stability and Reactivity****Reactivity:** No reactivity hazards known**Chemical Stability:** Stable under normal temperatures and pressures.**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, strong oxidants.**Incompatibilities with Other Materials:** Oxidizing agents.**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.**11. Toxicological Information****CAS# 55268-74-1:** UQ4150000**LD50/LC50:** LD50 Oral; rat ; 2,840 mg/kg; Oral LD50, Mouse: 2454 mg/kg**Carcinogenicity:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.**Epidemiology:** No data is available on the product.**Teratogenicity:** No data is available on the product.

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**Reproductive Effects:** No data is available on the product.

**Neurotoxicity:** No data is available on the product.

**Mutagenicity:** No data is available on the product.

**Other Studies:** Chronic exposure may cause nausea and vomiting; higher exposure causes unconsciousness.

**Local Effects:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Specific Effects:** May included moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

**Aspiration hazard:** Not Available

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Toxic if swallowed.

**12. Ecological Information**

**Ecological effects information:** Harmful to aquatic organisms.

LC50-96 Hour - fish [mg/L] : No data available.

EC50-48 Hour-Daphnia magna [mg/L] : 35

IC50-72h-Algae [mg/L] : No data available.

Biodegradation [%] : 0

**Persistence - degradability:** Minimally biodegradable.

Log P octanol / water at 20°C : 2.012

**Bio accumulative potential:** No data available.

**Environmental precautions:** Avoid release to the environment

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There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is Regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

**Contaminated packaging:**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after emptied.

**Packaging:**

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

**14. Transport Information****DOT**

Not regulated as a hazardous material by DOT.

**RID/ADR:**

Non-hazardous for road transport

**IMDG**

Non-hazardous for sea transport

**IATA**

Non-hazardous for air transport

**15. Regulatory information****Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

**SARA 302 Extremely hazardous substance:** No

**SARA 311/312 Hazardous Chemical:** No



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**16. Other Information**

No Data Available

**THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE**

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