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Safety Data Sheet acc. to OSHA HCS

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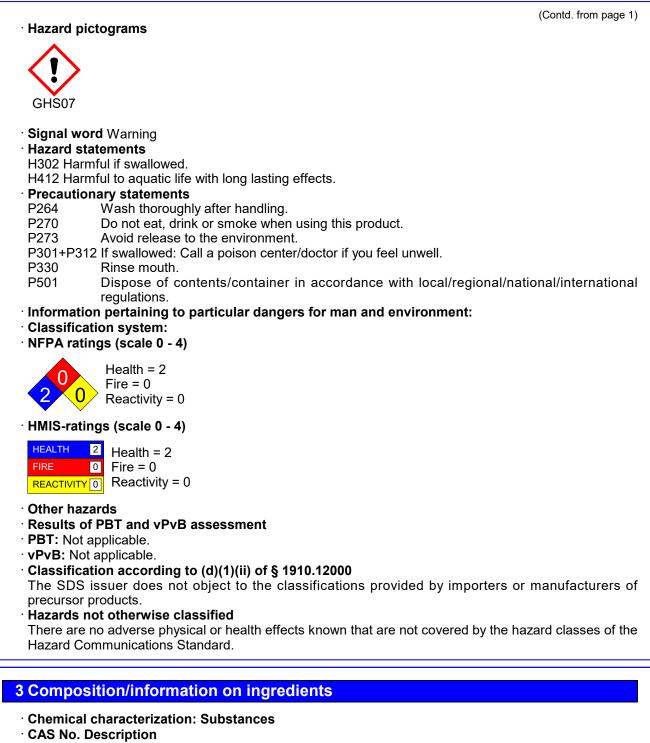
| Product identifier | | | |
|---|--|--|--|
| | quantal | | |
| Trade name: Prazi Synonym | quanter | | |
| 2-(cyclohexylcarbonyl)-1,2,3,6,7,11b-hexahydro-4H-pyrazino[2,1-a]isoquinolin-4-one | | | |
| Embay 8440 | y,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| (±)-Praziquantel | | | |
| CAS Number: 55268-74-1 | | | |
| Other means of ide | entification | | |
| | | | |
| Article number: 20 EC number: | 508 | | |
| 259-559-6 | | | |
| | substance / the mixture | | |
| This product is for re | esearch use - Not for human or veterinary diagnostic or therapeutic use. | | |
| | blier of the safety data sheet | | |
| Manufacturer/Sup | | | |
| Cayman Chemical (1180 E. Ellsworth R | | | |
| Ann Arbor, MI 4810 | | | |
| USA | • | | |
| Information depart | tment: Product safety department | | |
| Emergency teleph | | | |
| | ing times: +1 (734) 971-3335 | | |
| US/CANADA: 800-4 Outside US/CANAD | | | |
| | JA* /U.3-/41-39/U | | |
| Outside 05/CANAL | | | |
| | | | |
| Hazard(s) ident | | | |
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| Hazard(s) ident | ification ne substance or mixture | | |
| Hazard(s) ident | ification | | |
| Hazard(s) ident | ification ne substance or mixture | | |
| Hazard(s) ident Classification of th GHS07 Acute toxicity - oral | ification ne substance or mixture 4 H302 Harmful if swallowed. | | |
| Hazard(s) ident Classification of th GHS07 Acute toxicity - oral Aquatic Acute 3 | ification ne substance or mixture 4 H302 Harmful if swallowed. H402 Harmful to aquatic life. | | |
| Hazard(s) ident Classification of the GHS07 Acute toxicity - oral Aquatic Acute 3 Aquatic Chronic 3 Label elements GHS label element | ification ne substance or mixture 4 H302 Harmful if swallowed. H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects. | | |

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- 55268-74-1 Praziquantel
- Identification number(s)
- EC number: 259-559-6

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4 First-aid measures

- · Description of first aid measures
- · General information:
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- **PAC-3:** Substance is not listed.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling

No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

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- · Conditions for safe storage, including any incompatibilities
- **Storage:** Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection: Not required.

9 Physical and chemical properties

| Information on basic physical and c General Information | hemical properties |
|--|---------------------------|
| · Physical state | Solid |
| · Color: | Not determined. |
| · Odor: | Characteristic |
| · Structural Formula | C19H24N2O2 |
| · Molecular Weight | 312.4 g/mol |
| · Storage Buffer | 5 |
| · Odor threshold: | Not determined. |
| · Formulation | |
| • Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | Undetermined. |
| · Flammability: | Product is not flammable. |
| · Explosion limits: | |
| Lower: | Not determined. |
| · Upper: | Not determined. |
| Flash point: | Not applicable. |

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| Decomposition temperature: | Not determined. |
| pH-value: | Not applicable. |
| Viscosity: | |
| Kinematic: | Not applicable. |
| SOLUBILITY | DMF: 30 mg/ml; DMSO: 20 mg/ml; DMSO:PBS(pH |
| | 7.2) (1:4): 0.2 mg/ml; Ethanol: 10 mg/ml |
| Dynamic: | Not applicable. |
| Solubility in / Miscibility with | |
| Water: | Not determined. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Vapor pressure: | Not applicable. |
| Vapor pressure: | |
| Density: | Not determined. |
| Relative density | Not determined. |
| Vapor density | Not applicable. |
| Particle characteristics | Not determined. |
| Other information | |
| Appearance: | |
| Form: | Solid |
| Important information on protection of hea | lth |
| and environment, and on safety. | |
| Ignition temperature: | Not determined. |
| Danger of explosion: | Product does not present an explosion hazard. |
| Change in condition | · · · |
| Evaporation rate | Not applicable. |

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · **Incompatible materials:** strong oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoixde, nitrogen oxides

11 Toxicological information

- · RTECS Number UQ4150000
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

| Oral LD50 | 2,840 mg/kg (rat) |
|-----------|-------------------|
| | |

Intraperitoneal LD50 586 mg/kg (rat)

Subcutaneous LD50 7,172 mg/kg (mouse)

Intramuscular LD50 >2 g/kg (rat)

Primary irritant effect:

• on the skin: No irritant effect.

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- · on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information
- No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

13 Disposal considerations

· Waste treatment methods

• Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information · UN-Number · DOT, IMDG, IATA · UN proper shipping name · DOT, IMDG, IATA · DOT, IMDG, IATA not regulated (Contd. on page 7) US

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| Transport hazard class(es) | | |
| · DOT, ADN, IMDG, IATA · Class | not regulated | |
| Packing group DOT, IMDG, IATA | not regulated | |
| · Environmental hazards: | Not applicable. | |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | x II of Not applicable. | |
| · Special precautions for user | Not applicable. | |
| · UN "Model Regulation": | not regulated | |

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of previous version 04/26/2022
- Date of preparation 10/11/2024
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

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| (Contd. from p EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute toxicity - oral 4: Acute toxicity – Category 4 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 * Data compared to the previous version altered. | page 7) |
|--|---------|
|--|---------|