

Page 1/8

# Safety Data Sheet acc. to OSHA HCS

Printing date 04/01/2021

Revision date 04/01/2021

# **1** Identification

## Product identifier

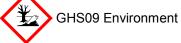
- · Trade name: RPI-1
- · Synonym 1,3-dihydro-3-[(4-hydroxyphenyl)methylene]-5,6-dimethoxy-2H-indol-2-one
- · Article number: 20384
- · CAS Number:
- 269730-03-2
- Application of the substance / the mixture For research use only, not for human or veterinary use.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.

1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

# 2 Hazard(s) identification

# Classification of the substance or mixture



Aquatic Acute 1 H400 Very toxic to aquatic life.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



- · Signal word Warning
- · Hazard statements

H400 Very toxic to aquatic life. • Precautionary statements Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Printing date 04/01/2021

Revision date 04/01/2021

(Contd. from page 1)

## Trade name: RPI-1

Classification system:
 NFPA ratings (scale 0 - 4)



Health = 0 Fire = 0 Reactivity = 0

### · HMIS-ratings (scale 0 - 4)

HEALTHImage: Constraint of the sectorHealth = 0FIREImage: Constraint of the sectorFire = 0REACTIVITY Image: Constraint of the sectorReactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

# **3 Composition/information on ingredients**

- · Chemical characterization: Substances
- · CAS No. Description
- 269730-03-2 RPI-1

# **4 First-aid measures**

- Description of first aid measures
- 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: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. 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.

(Contd. on page 3)

Printing date 04/01/2021

Revision date 04/01/2021

(Contd. from page 2)

### Trade name: RPI-1

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.

# 7 Handling and storage

## · Handling:

- 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.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- 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

• Additional information about design of technical systems: No further data; see item 7.

- · 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
- · 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.

(Contd. on page 4)

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Printing date 04/01/2021

Revision date 04/01/2021

(Contd. from page 3)

Trade name: RPI-1

• 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 chemical properties	
General Information	
· Appearance: Form:	Crystalline
Color:	Not determined.
· Odor:	Characteristic
· Structural Formula	C17H15NO4
Molecular Weight	297.3 g/mol
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
Vapor density	Not applicable.
· Evaporation rate	Not applicable.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Not determined.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	~0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2); ~1, 10, 15 mg/ml in EtOH, DMSO, DMF, respectively
· Other information	No further relevant information available.

(Contd. on page 5)

Printing date 04/01/2021

Revision date 04/01/2021

### Trade name: RPI-1

(Contd. from page 4)

# **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 oxides, nitrogen oxides

# **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · 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.

# **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for 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.
- Very toxic for aquatic organisms
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

(Contd. on page 6)

Printing date 04/01/2021

Revision date 04/01/2021

# Trade name: RPI-1

(Contd. from page 5)

# **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.

· UN-Number · DOT, IMDG, IATA	UN3077
· UN proper shipping name · DOT, IATA	Environmentally hazardous substance, solid, n.o.
· IMDG	(RPI-1) ENVIRONMENTALLY HAZARDOUS SUBSTANC SOLID, N.O.S. (RPI-1)
Transport hazard class(es)	
DOT, IMDG	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
· Class · Label	9 Miscellaneous dangerous substances and articles 9
	9
· Packing group · DOT, IMDG, IATA	Ш
· Environmental hazards: · Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances ar articles
<ul> <li>Hazard identification number (Kemler code</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	

# Safety Data Sheet acc. to OSHA HCS

Printing date 04/01/2021

Revision date 04/01/2021

Trade name: RPI-1

	(Contd. from page 6
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
·IMDG	
<ul> <li>Limited quantities (LQ)</li> </ul>	5 kg
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E1
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
·IATA	
· Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (RPI-1), 9, III

# **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.
- · Proposition 65
- · 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**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- Contact: -
- · Date of preparation / last revision 04/01/2021 / -

(Contd. on page 8)

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Printing date 04/01/2021

Revision date 04/01/2021

(Contd. from page 7)

### Trade name: RPI-1

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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