# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 18.07.2021

CHEMICALS, INC.

Revision: 18.07.2021

| <ul> <li>1.1 Product identifier</li> <li>Trade name: (3aR,3'aR,8a,8'a'S)-2,2'-Cyclopropylidenebis[3a,8a-dihydro-8H-Indeno[1,2-d]oxazo. (99% ee)</li> <li>Item number: 07.1408</li> <li>CAS Number: 229184-98-9</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way</li> <li>NEWBURYPORT, MA 01950</li> <li>USA info@strem.com</li> <li>Further information obtainable from: Technical Department</li> <li>1.4 Emergency telephone number: Echnical Department</li> <li>EMERGENCY: CHEMTREC: + 1 (800) 424-9300</li> <li>During normal opening times: +1 (978) 499-1600</li> </ul> SECTION 2: Hazards identification Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Harard statements Void Spread pictograms Void Spread pictograms Void Spread pictograms Void Spreading in eyes, on skin, or on clothing, Precution/face protection, present and easy to do. Continue rinsing. P403 + P331 F IN EYES: Rinse cautiously with water for several minutes. Remove contact present and easy to do. Continue rinsing. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contentis/container in accordance with local/regional/national/inter regulations. 2.3 Other hazards Results of PBT and PPvB assessment PBT: No tapplicable.   | • Trade name: (3aR,3<br>(99% e<br>• Item number: 07-14<br>• CAS Number:<br>229184-98-9<br>• 1.2 Relevant identifi | B'aR,8aS,8'a'S)-2,2'-Cyclopropylidenebis[3a,8a-dihydro-8H-Indeno[1,2-d]oxazole], 98%,<br>ee)   |
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| 2.3 Other hazards<br>Results of PBT and vPvB assessment  | P403+P233 S<br>P501 I   | Store in a well-ventilated place. Keep container tightly closed.<br>Dispose of contents/container in accordance with local/regional/national/international           |
|  | 2.3 Other hazards<br>Results of PBT and   | vPvB assessment  |
| vPvB: Not applicable.  | vPvB: Not applicabl   | <i>e.</i>  |
| (Contd   |   |  |



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#### **SECTION 3: Composition/information on ingredients**

· 3.1 Chemical characterisation: Substances

· CAS No. Description

229184-98-9 (3aR,3'aR,8aS,8'a'S)-2,2'-Cyclopropylidenebis[3a,8a-dihydro-8H-Indeno[1,2-d]oxazole], 98%, (99% ee)

#### **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- · General information: No special measures required.
- · 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. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- 6.4 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.

#### **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 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.

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• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

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  $\cdot$  *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: Safety glasses

| • 9.1 Information on basic physical and cl<br>• General Information       | nemical properties                            |
|---|---|
| · Appearance:   |   |
| Form:   | Powder  |
| Colour:   | Whitish                                       |
| · Odour:  | Characteristic                                |
| • Odour threshold:  | Not determined.                               |
| · pH-value:   | Not applicable.                               |
| · Change in condition   |   |
| Melting point/freezing point:<br>Initial boiling point and boiling range: | Undetermined.<br>Undetermined.                |
| · Flash point:  | Not applicable.                               |
| · Flammability (solid, gas):  | Product is not flammable.                     |
| · Ignition temperature:   |   |
| Decomposition temperature:  | Not determined.                               |
| • Auto-ignition temperature:  | Not determined.                               |
| · Explosive properties:   | Product does not present an explosion hazard. |
|   | (Contd. on page                               |

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|   | (Contd. of page                            |
|---|--|
| · Explosion limits:                       |  |
| Lower:                                    | Not determined.                            |
| Upper:                                    | Not determined.                            |
| · Vapour pressure:                        | Not applicable.                            |
| · Density:                                | Not determined.                            |
| · Relative density                        | Not determined.                            |
| · Vapour density                          | Not applicable.                            |
| · Evaporation rate                        | Not applicable.                            |
| · Solubility in / Miscibility with        |  |
| water:                                    | Insoluble.                                 |
| · Partition coefficient: n-octanol/water: | Not determined.                            |
| · Viscosity:                              |  |
| Dynamic:                                  | Not applicable.                            |
| Kinematic:                                | Not applicable.                            |
| · Solvent content:                        |  |
| Organic solvents:                         | 0.0 %                                      |
| VÕC (EC)                                  | 0.00 %                                     |
| · 9.2 Other information                   | No further relevant information available. |

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- · STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot \textbf{STOT-repeated exposure} Based on available data, the classification criteria are not met.$
- Aspiration hazard Based on available data, the classification criteria are not met.

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#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Transport informa                                      | tion                         |  |
|--|------------------------------|--|
| · 14.1 UN-Number<br>· ADR, ADN, IMDG, IATA                         | not regulated                |  |
| 14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA               | not regulated                |  |
| 14.3 Transport hazard class(es)                                    |                              |  |
| ADR, ADN, IMDG, IATA<br>Class                                      | not regulated                |  |
| 14.4 Packing group<br>ADR, IMDG, IATA                              | not regulated                |  |
| 14.5 Environmental hazards:  | Not applicable.              |  |
| 14.6 Special precautions for user                                  | Not applicable.              |  |
| 14.7 Transport in bulk according to Ann<br>Marpol and the IBC Code | nex II of<br>Not applicable. |  |
| UN ''Model Regulation'':   | not regulated                |  |

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## SECTION 15: Regulatory information

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· National regulations:

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 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: Technical Department.
- · Contact: Technical Director
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

*vPvB: very Persistent and very Bioaccumulative*