CHEMICALS, INC.

	2022 Revision: 28.02.20
SECTION 1:	Identification of the substance/mixture and of the company/undertaking
1.1 Product iden	ntifier
	2-Bis[(4R)-4-tert-butyl-2-oxazolin-2-yl]propane, 98%, (99% ee)
Item number: 02	7-1058
CAS Number:	
131833-97-1	ntified uses of the substance or mixture and uses advised against
	ant information available.
1.3 Details of the	e supplier of the safety data sheet
Manufacturer/S	
Strem Chemicals	s, Inc.
7 Mulliken Way	
NEWBURYPOR	Т, МА 01950
USA info@strem.com	
Further informa	ation obtainable from: Technical Department
1.4 Emergency t EMERGENCY:	CHEMTREC: +1 (800) 424-9300
1.4 Emergency t EMERGENCY: During normal o SECTION 2: 2.1 Classificatio	CHEMTREC: +1 (800) 424-9300 opening times: +1 (978) 499-1600 Hazards identification on of the substance or mixture
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1.4 Emergency t EMERGENCY: During normal o SECTION 2: 2.1 Classification Classification ad The substance is 2.2 Label element Labelling accord Hazard pictogra Signal word Voit Hazard statement Precautionary su P231 P305+P351+P3 P403+P233 P411+P235	CHEMTREC: + 1 (800) 424-9300 ppening times: +1 (978) 499-1600 Hazards identification n of the substance or mixture ccording to Regulation (EC) No 1272/2008 : not classified according to the CLP regulation. nts ding to Regulation (EC) No 1272/2008 Void tms Void id nts Void tatements Handle under inert gas. 38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep container tightly closed.
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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. Open and handle receptacle with care.
- · Handling: Handle under inert gas.
- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Keep cool.
- Store contents under inert gas.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: None.
- Recommended storage temperature: Store at temperatures not exceeding 4 °C. Keep cool.
- · 7.3 Specific end use(s) No further relevant information available.

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	echnical facilities: No further data; see item 7.
8.1 Control parameters Ingredients with limit values that require Additional information: The lists valid du	e monitoring at the workplace: Not required.
8.2 Exposure controls Personal protective equipment: General protective and hygienic measure The usual precautionary measures are to Respiratory protection: Not required. Protection of hands:	
Protective gloves	
chemical mixture. Selection of the glove material on conside Material of gloves The selection of the suitable gloves does r varies from manufacturer to manufacturer Penetration time of glove material	to the glove material can be given for the product/ the preparation/ th eration of the penetration times, rates of diffusion and the degradation not only depend on the material, but also on further marks of quality an r. found out by the manufacturer of the protective gloves and has to b
9.1 Information on basic physical and ch	hemical properties
General Information	
Appearance:	
	Dowder
Form:	Powder Whitish
	Powder Whitish Characteristic
Form: Colour:	Whitish
Form: Colour: Odour:	Whitish Characteristic
Form: Colour: Odour: Odour threshold:	Whitish Characteristic Not determined. Not applicable. Undetermined.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point:	Whitish Characteristic Not determined. Not applicable. Undetermined.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Whitish Characteristic Not determined. Not applicable. Undetermined. Undetermined.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point:	Whitish Characteristic Not determined. Not applicable. Undetermined. Not applicable.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas):	Whitish Characteristic Not determined. Not applicable. Undetermined. Not applicable.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Ignition temperature:	Whitish Characteristic Not determined. Not applicable. Undetermined. Undetermined. Not applicable. Product is not flammable.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature:	Whitish Characteristic Not determined. Not applicable. Undetermined. Undetermined. Not applicable. Product is not flammable. Not determined.
Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature:	Whitish Characteristic Not determined. Not applicable. Undetermined. Undetermined. Not applicable. Product is not flammable. Not determined. Not determined.



HEMICALS, INC.

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

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Trade name: 2,2-Bis[(4R)-4-tert-butyl-2-oxazolin-2-yl]propane, 98%, (99% ee)

	(Contd. of p	age		
· 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.
- 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.
- 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.

SECTION 12: Ecological information

· 12.1 Toxicity

• 12.2 Persistence and degradability No further relevant information available.

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[•] *Aquatic toxicity:* No further relevant information available.

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· 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 information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated			
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated			
· 14.3 Transport hazard class(es)				
· ADR, ADN, IMDG, IATA · Class	not regulated			
· 14.4 Packing group · 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 Annex II of Marpol and the IBC Code Not applicable.				
· UN "Model Regulation":	not regulated			

SECTION 15: Regulatory information

· 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.

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• 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

