Printing date 18.07.2021

CHEMICALS, INC.

Revision: 18.07.2021

$\begin{array}{c} 1.3 \ \mbox{Relevant identified uses of the substance or mixture and uses advised against} \\ \mbox{Volume} relevant information available.} \\ \box{1.3 \ Details of the supplier of the safety data sheet} \\ \mbox{Manufacturer/Supplier:} \\ \mbox{Strem Chemicals, Inc. } \\ \mbox{Multikentway} \\ \mbox{VeWBURYPORT, MA 01950} \\ \mbox{JSA} \\ \mbox{Mommation obtainable from: Technical Department} \\ \mbox{Multikentway} \\ \mbox{VeWBURYPORT, MA 01950} \\ \mbox{JSA} \\ \mbox{Mommation obtainable from: Technical Department} \\ \mbox{Mether information obtainable from: Technical Department} \\ \mbox{Mether endown and opening times: +1 (978) 499-1600} \\ \mbox{Mether dependent of the substance or mixture} \\ \mbox{Mether dependent of the substance or mixture} \\ \mbox{Mether dependent of the substance or mixture} \\ \mbox{Certification of the substance or mixture} \\ \mbox{Mether dependent of the substance or ding to Regulation (EC) No 1272/2008 \\ \mbox{Mether dependent of the substance or ding to substance or ding to the CLP regulation. \\ \mbox{Mether dependent of the substance is classified and labelled according to the CLP regulation. \\ \mbox{Mether dependent of the substance is classified and labelled according to the CLP regulation. \\ \mbox{Mether dependents} \\ Mether dependent of the substance of discover discov$		1: Identification of the substance/mixture and of the company/undertaking	
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# CHEMICALS, INC.

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

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#### Trade name: Cyclooctatetraene, 98% COT

		(Contd. of page 1)
	P103	Read label before use.
	P231	Handle under inert gas.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P303+P361+P353	<i>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</i>
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P422	Store contents under inert gas.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
•	2.3 Other hazards	•
	Results of PBT and	d vPvB assessment
	<b>PRT</b> . Not applicab	le

• *PBT:* Not applicable. • *vPvB:* Not applicable.

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

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 629-20-9 cyclooctatetraene
- · Identification number(s)
- EC number: 21-1

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

- 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

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: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Call for a doctor immediately.
- 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:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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.

(Contd. on page 3)

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(Contd. of page 2)

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

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars.

#### $\cdot$ 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · 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 Open and handle receptacle with care.

- · Handling: Handle under inert gas.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 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: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Recommended storage temperature: Store at temperatures not exceeding 4 °C. Keep cool.
- 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: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.

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Trade name: Cyclooctatetraene, 98% COT

· 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:



Tightly sealed goggles

General Information	
Appearance:	<b>y</b> ,
Form:	Liquid
Colour:	Light yellow
Odour:	Pungent
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range.	• 142-143 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
Ignition temperature:	250 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	8.4 Vol %
Vapour pressure at 25 °C:	7.9 hPa
Density at 20 °C:	0.943 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

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Trade name: Cyclooctatetraene, 98% COT

		(Contd. of page
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC(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.
- $\cdot$  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
- Harmful if swallowed.
- 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.
- $\cdot$  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.
- 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
- $\cdot$  Aquatic toxicity: No further relevant information available.
- $\cdot$  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:
- $\cdot$  General notes: Not known to be hazardous to water.

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· 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

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

· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN2358
14.2 UN proper shipping name	
ADR	2358 CYCLOOCTATETRAENE
IMDG, IATA	CYCLOOCTATETRAENE
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	<i>3</i>
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
Stowage Category	В
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities $(EQ)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

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·IMDG	
· Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 2358 CYCLOOCTATETRAENE, 3, II

### **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.
- · Seveso category P5c FLAMMABLE LIQUIDS
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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
   EINECS: European Inventory of Existing Commercial Chemical Substances
   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
   Flam. Liq. 2: Flammable liquids Category 2
   Acute Tox. 4: Acute toxicity Category 4

