




## MATERIAL SAFETY DATA SHEET

### 1,5-CYCLOOCTADIENE

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
<b>1.1</b>	<b>Product identifiers</b>		
	Product name	:	1,5-Cyclooctadiene
	Brand	:	LABORT FINE CHEM PVT LTD.
	CAS-No.	:	111-78-4
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>		
	Company	:	<b>LABORT FINE CHEM PVT LTD.</b> 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA.  <b>PH:</b> 0091-261-2725761; 2725388 <b>FAX:</b> 0091-261-2725388  <b>E MAIL:</b> <a href="mailto:info@laboratorychemical.net">info@laboratorychemical.net</a> <b>WEBSITE:</b> <a href="http://www.laboratorychemical.net">www.laboratorychemical.net</a>  <b>FACTORY:</b> PLOT NO. 320, G.I.D.C. ICHHAPORE INDUSTRIAL ESTATE, OPP- ONGC, TALUKA- CHORYASI, DISTRICT SURAT, GUJARAT., PIN 394510, INDIA
<b>1.4</b>	<b>Emergency telephone number</b>		
	Emergency Phone #	:	<b>098251 19165</b>
SECTION 2: Hazards identification			
<b>2.1</b>	<b>Classification of the substance or mixture</b>		
	<b>Classification according to Regulation (EC) No 1272/2008</b> Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitisation (Category 1), H317 For the full text of the H-Statements mentioned in this Section, see Section 16.		
<b>2.2</b>	<b>Label elements</b>		
	<b>Labelling according Regulation (EC) No 1272/2008</b>		

	Pictogram	:		
	Signal word	:	Warning	
	Hazard statement(s)	:	H226 Flammable liquid and vapour. H302 + H332 Harmful if swallowed or if inhaled H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.	
	Precautionary statement(s)	:	P280 Wear protective gloves. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	Supplemental Hazard statements	:	None	
2.3	Other hazards			
	This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.			
SECTION 3: Composition/information on ingredients				
3.1	Substances			
	Formula	:	C <sub>8</sub> H <sub>12</sub>	
	Molecular weight	:	108.18 g/mol	
	CAS-No.	:	111-78-4	
	EC-No.	:	203-907-1	
	Hazardous ingredients according to Regulation (EC) No 1272/2008			
	Component	Classification	Concentration	
	Cycloocta-1,5-diene			
	CAS-No.: 111-78-4 EC-No. 203-907-1	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; H226, H302, H332, H315, H319, H317	<= 100 %	
	For the full text of the H-Statements mentioned in this Section, see Section 16.			
SECTION 4: First aid measures				
4.1	Description of first aid measures			
	If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.			
	In case of skin contact Wash off with soap and plenty of water.			
	In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			
	If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
4.2	Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11			
	Indication of any immediate medical attention and special treatment needed No data available			

SECTION 4: First aid measures	
5.1	<b>Extinguishing media</b> <b>Suitable extinguishing media</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	<b>Special hazards arising from the substance or mixture</b> Carbon oxides
5.3	<b>Advice for firefighters</b> Wear self-contained breathing apparatus for firefighting if necessary.
5.4	<b>Further information</b> Use water spray to cool unopened containers.
SECTION 6: Accidental release measures	
6.1	<b>Personal precautions, protective equipment and emergency procedures</b> Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
6.2	<b>Environmental precautions</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3	<b>Methods and materials for containment and cleaning up</b> Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
6.4	<b>Reference to other sections</b> For disposal see section 13.
SECTION 7: Handling and storage	
7.1	<b>Precautions for safe handling</b> Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.
7.2	<b>Conditions for safe storage, including any incompatibilities</b> Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Light sensitive. Air sensitive. Heat sensitive. Storage class (TRGS 510): Flammable liquids
7.3	<b>Specific end use(s)</b> Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
SECTION 8: Exposure controls/personal protection	
8.1	<b>Control parameters</b>
	<b>Components with workplace control parameters</b>
8.2	<b>Exposure controls</b> <b>Appropriate engineering controls</b> Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. <b>Personal protective equipment</b> <b>Eye/face protection</b> Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). <b>Skin protection</b> Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. <b>Full contact</b> Material: Fluorinated rubber <b>Body Protection</b>

	<p>Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p><b>Respiratory protection</b> Use respirators and components tested and approved under appropriate government standards.</p> <p><b>Control of environmental exposure</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.</p>
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## SECTION 9: Physical and chemical properties

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance Form	Form: Liquid
	Colour	No data available
	Odour	No data available
	Odour Threshold	No data available
	pH	No data available
	Melting point/freezing point	Melting point/range: -69 °C - lit.
	Initial boiling point and boiling range	149 - 150 °C - lit.
	Flash point	38 °C - closed cup
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapour pressure	25.8 mmHg at 37.7 °C 6.8 mmHg at 25 °C
	Vapour density	No data available
	Relative density	0.882 g/cm <sup>3</sup> at 25 °C
	Water solubility	No data available
	Partition coefficient: noctanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
<b>9.2</b>	<b>Other safety information</b>	No data available

## SECTION 10: Stability and reactivity

<b>10.1</b>	<p><b>Reactivity</b> No data available</p>
<b>10.2</b>	<p><b>Chemical stability</b> Stable under recommended storage conditions.</p>

<b>10.3</b>	<b>Possibility of hazardous reactions</b> No data available
<b>10.4</b>	<b>Conditions to avoid</b> Heat, flames and sparks.
<b>10.5</b>	<b>Incompatible materials</b> Strong oxidizing agents
<b>10.6</b>	<b>Hazardous decomposition products</b> Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5
<b>SECTION 11: Toxicological information</b>	
<b>11.1</b>	<b>Acute toxicity</b> LD50 Oral Oral - Rat - 1,900 mg/kg(Cycloocta-1,5-diene) (OECD Test Guideline 401) LC50 Inhalation - Rat - 4 h - 11.9 mg/l(Cycloocta-1,5-diene) <b>Skin corrosion/irritation</b> No data available(Cycloocta-1,5-diene) <b>Serious eye damage/eye irritation</b> No data available(Cycloocta-1,5-diene) <b>Respiratory or skin sensitisation</b> No data available(Cycloocta-1,5-diene) <b>Germ cell mutagenicity</b> No data available(Cycloocta-1,5-diene) <b>Carcinogenicity</b> IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. <b>Reproductive toxicity</b> No data available(Cycloocta-1,5-diene) <b>Specific target organ toxicity - single exposure</b> No data available(Cycloocta-1,5-diene) <b>Specific target organ toxicity - repeated exposure</b> No data available <b>Aspiration hazard</b> No data available(Cycloocta-1,5-diene) <b>Additional Information</b> RTECS: GX9560000 Exposure to large amounts can cause: Kidney injury may occur., Liver injury may occur., Lethargy., Incoordination.(Cycloocta-1,5-diene) To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Cycloocta-1,5-diene)
<b>SECTION 12: Ecological informat</b>	
<b>12.1</b>	<b>Toxicity</b>
	No data available
<b>12.2</b>	<b>Persistence and degradability</b> No data available
<b>12.3</b>	<b>Bioaccumulative potential</b> No data available
<b>12.4</b>	<b>Mobility in soil</b> No data available(Aziridine, homopolymer)
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b> This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>12.6</b>	<b>Other adverse effects</b> No data available
<b>SECTION 13: Disposal considerations</b>	

13.1	<b>Waste treatment methods</b> <b>Product</b> Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. <b>Contaminated packaging</b> Dispose of as unused product.
<b>SECTION 14: Transport information</b>	
14.1	<b>UN number</b>
	ADR/RID: 2520      IMDG: 2520      IATA: 2520
14.2	<b>UN proper shipping name</b>
	ADR/RID: Cyclooctadienes IMDG: Cyclooctadienes IATA: Cyclooctadienes
14.3	<b>Transport hazard class(es)</b>
	ADR/RID: 3      IMDG: 3      IATA: 3
	<b>Packaging group</b>
	ADR/RID: III      IMDG: III      IATA: III
	<b>Environmental hazards</b>
	ADR/RID: No      IMDG Marine pollutant: No      IATA: No
14.4	<b>Special precautions for user</b> No data available
<b>SECTION 15: Regulatory information</b>	
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2	<b>Chemical safety assessment</b> For this product a chemical safety assessment was not carried out
<b>SECTION 16: Other information</b>	
	<b>Further information</b> LABORT FINE CHEM PVT LTD. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LABORT FINE CHEM PVT LTD. Makes no representations or warranties, either express or implied, including without limitation any warranties or merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, LABORT FINE CHEM PVT LTD. will not be responsible for damages resulting from use of or reliance upon this information.  Created on: 29/03/2019 Revision: 01