#### LC-065-LINDRIDE 55

Revision Date 21-Aug-2020

SAFETY DATA SHEET



**Issue Date** 15-September-1998

Revision Date 21-August-2020

Version 3

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Name	LINDRIDE 55
Other Means of Identification	

SDS #

 Recommended Use of the Chemical and Restrictions on Use

 Recommended Use
 Epoxy curing agent for high performance composites and electronics

LC-065

#### Details of the Supplier of the Safety Data Sheet

Supplier Address Lindau Chemicals, Inc. 731 Rosewood Drive Columbia, SC 29201

# Emergency Telephone Number

Company Phone Number

Emergency Telephone

Phone: 1-803-799-6863 Fax: 1-803-256-3639 INFOTRAC 01-352-323-3500 (International) 1-800-457-4280 (North America)

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** The information below relates to repeated and prolonged exposure, particularly where exposure is to the vapor form of the substance. The supplier has indicated that eye exposure normally results in eye irritation.

### **Classification**

Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1

# Signal Word

Danger

## Hazard Statements

H318: Causes serious eye damage

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317: May cause an allergic skin reaction



Appearance Very pale amber liquid

Physical State Liquid

Odor Characteristic

## Precautionary Statements - Prevention

P261: Avoid breathing fumes or vapors.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves, protective clothing and eye protection.

P284: In case of inadequate ventilation wear respiratory protection.

### Precautionary Statements - Response

P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes. P338: Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

## Precautionary Statements - Disposal

P501: Dispose of contents/container to an approved waste disposal plant.

### Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Formula MHHPA; 4-Methyl-1,2-cyclohexanedicarboxylic anhydride  $C_9H_{12}O_3$ 

Chemical Name	CAS No	Weight-%
Methylhexahydrophthalic anhydride	19438-60-9	> 95

\*\* If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

# 4. FIRST AID MEASURES

#### First Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical advice/attention.
Ingestion	Call immediately a physician or your local Poison Control Center.
Skin Contact	Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

#### Most Important Symptoms and Effects. both Acute and Delayed

Symptoms	Contact may cause irritation and redness. Direct eye contact may cause stinging, tearing
	and redness. May cause irritation to the mucous membranes and upper respiratory tract.

### Indication of any Immediate Medical Attention and Special Treatment Needed

**Note to Physicians** Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

### Extinguishing Media

Suitable MediaDry chemical, carbon dioxide (CO2), water spray (fog)

Unsuitable Media Not determined

#### Specific Hazards Arising from the Chemical

Burning may produce irritating vapors, carbon monoxide and/or carbon dioxide.

Hazardous Combustion Products Carbon monoxide, carbon dioxide

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions. Protective Equipment and Emergency Procedures

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate ventilation.
Environmental Precautions	Avoid subsoil penetration. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
Methods and Material for Containn	nent and Cleaning Up
Methods for Containment	Provide ventilation and respirator if needed. Flush area with water/soda ash. Keep flames away. Avoid subsoil penetration. Do not let product enter drains or contaminate surface water.
Methods for Cleaning Up	Absorb spillage with non-combustible, absorbent material. Dispose of in accordance with federal, state and local regulations. Flush area with water and soda ash.

### 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Advice on Safe Handling	Use only in well-ventilated areas. Use personal protection recommended in Section 8.
	Avoid breathing vapors. Do not take contaminated clothing out of the workplace.

#### Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store at temperatures above 50°F (10°C) to prevent crystallization.
Packaging Materials	Do not transfer to unmarked containers.
Incompatible Materials	Alcohols, alkalis, water

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

## Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Wear approved safety goggles.
Skin and Body Protection	Wear chemical resistant, impermeable gloves. Wear suitable protective clothing.
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas.
General Hygiene	Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State Appearance Color	Liquid Very pale amber liquid Very pale amber	Odor Odor Threshold	Characteristic Not determined
Color <u>Property</u> pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limit Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in Other Solvents	Very pale amber <u>Values</u> Not determined > 307 °C / > 585 °F > 135 °C / > 275 °F zero n/a-liquid Not applicable Not applicable 0 mm Hg 5.7 1.16 Negligible Not determined	Odor Threshold <u>Remarks/Method</u> ASTM D-86 (PM) (butyl acetate = 1) @ 15 °C (air = 1) (water = 1) @ 25 °C	Not determined
Partition Coefficient Autoignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties Additional Information	Not determined Not determined Not determined Not determined Not determined Not determined Not determined Volatile by volume 0%		

# **10. STABILITY AND REACTIVITY**

## Reactivity

Not reactive under normal conditions

## Chemical Stability

Stable under recommended storage conditions

### Possibility of Hazardous Reactions

None under normal processing

Hazardous Polymerization Hazardous polymerization does not occur.

### **Conditions to Avoid**

Slowly hydrolyzed by water. Reacts with incompatible materials.

### **Incompatible Materials**

Alcohols, alkalis, water

#### **Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide

# **11. TOXICOLOGICAL INFORMATION**

### Information on Likely Routes of Exposure

Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye Contact	Causes serious eye damage
Ingestion	May cause burns of the mouth, throat and gastrointestinal tract. Normal handling and hygiene precautions should always be taken to avoid ingestion.
Skin Contact	May cause mild skin irritation. May cause allergic skin reaction.
Information on Physical. Chemical	and Toxicological Effects
Symptoms	Please see Section 4 of this SDS for symptoms.
Delayed and Immediate Effects as v	vell as Chronic Effects from Short-term and Long-term Exposure
Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## Persistence and Degradability

Not determined

#### **Bioaccumulation**

Not determined

Mobility Not determined

#### **Other Adverse Effects**

Not determined

13. DISPOSAL CONSIDERATIONS	
Waste Treatment Methods	
Disposal of Wastes	Dispose of in accordance with federal, state and local regulations. Incinerate in a suitable furnace or bury with lime in an approved landfill.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
14. TRANSPORT INFORMATION	

## Regulatory Entity

DOT	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG	Not regulated	

#### <u>Note</u>

Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

# **15. REGULATORY INFORMATION**

#### International Inventories

#### Listed

TSCA, DSL/NDSL, EINECS/ELINCS, ENCS, IECSC, KECI, PICCS, TCSI, AICS, NZIoC

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECI - Korea Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substance Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

#### **United States Federal Regulations**

CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).
EPCRA	This product does not contain any chemicals with known CAS numbers that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-know Act of 1986 (40 CFR 372).
United States State Regulations	

#### -

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

#### United States State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations.

Reviewed/updated

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16. OTHER INFORMATION						
<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards		
	Not determined	Not determined	Not determined	Not determined		
<u>HMIS</u>	Health Hazards	Flammability	<b>Physical Hazards</b>	Personal Protection		
	1	1	0	Not determined		
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#### **Disclaimer**

**Revision Note** 

**GHS Version** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **End of Safety Data Sheet**