



# SAFETY DATA SHEET

Issue Date 01-October-2000

Revision Date 18-November-2020

Version 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name LINDOXY 290

### Other Means of Identification

SDS # LC-059

### Recommended Use of the Chemical and Restrictions on Use

Recommended Use General industrial

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

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** The information below on skin sensitization relates to repeated and prolonged exposure, particularly where exposure is to the vapor form of the substance.

### Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Aquatic Hazard (Long-term)	Category 2
Skin Sensitization	Category 1

### Signal Word

Warning

### Hazard Statements

H315: Causes skin irritation  
H319: Causes serious eye irritation  
H411: Toxic to aquatic life with long lasting effects  
H317: May cause an allergic skin reaction



**Appearance** Colorless to pale yellow liquid

**Physical State** Liquid

**Odor** Slight aromatic

#### **Precautionary Statements - Prevention**

P261: Avoid breathing fumes or vapors.

P264: Wash face, hands and any exposed skin thoroughly after handling.

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

P273: Avoid release to the environment.

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

#### **Precautionary Statements - Response**

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.

P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes.

P338: Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P391: Collect spillage.

#### **Precautionary Statements - Disposal**

P501: Dispose of contents/container in accordance with local, regional and national regulations.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>
Epoxy phenol novolac resin	28064-14-4	> 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**

<b>Inhalation</b>	Move person to fresh air. Call a doctor/physician as necessary.
<b>Eye Contact</b>	Rinse cautiously with water for no less than 15 minutes. Remove contact lenses, if present. Continue rinsing. If eye irritation occurs or persists: Get medical attention.
<b>Ingestion</b>	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a doctor/physician.
<b>Skin Contact</b>	Take off or dispose of all contaminated clothing, including shoes. If on skin, thoroughly wash with plenty of soap and water until no evidence of the chemical remains. Launder contaminated clothing before reuse. Get medical attention if skin is damaged or if skin irritation develops or persists.

#### **Most Important Symptoms and Effects**

<b>Symptoms</b>	Exposure may cause an allergic skin reaction. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See Section 11 for additional information.
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#### **Indication of any Immediate Medical Attention and Special Treatment Needed (if Necessary)**

<b>Note to Physician</b>	Treat symptomatically. Treatment of overexposure should be directed toward the control of symptoms and be based on the clinical condition of the patient.
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## 5. FIRE-FIGHTING MEASURES

### **Extinguishing Media**

**Suitable Media** Dry chemical, water spray (fog), alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>)

**Unsuitable Media** Not determined

### **Specific Hazards Arising from the Chemical**

Product is not considered a fire hazard, but it may support combustion if exposed to fire. A closed container may possibly rupture due to build-up of pressure when exposed to extreme heat.

**Hazardous Combustion Products** Carbon monoxide, carbon dioxide, irritating vapors

### **Protective Equipment and Precautions for Fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Persons without suitable respiratory protection are to leave the area of the fire. Move all containers of material from the fire area if this can be done without risk. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of fire-fighting operations.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Keep unauthorized personnel away from any release. Wear appropriate personal protective equipment (see Section 8). Avoid inhalation of fumes or vapors and contact with skin and eyes. If spilled in an enclosed area, ventilate. Isolate a leak or spill area by establishing a non-entry zone appropriately around the leak or spill. Do not touch or walk through spilled material.

**Environmental Precautions** Prevent material from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information, and Section 13, Disposal Considerations, for additional information.

### **Methods and Materials for Containment and Cleaning Up**

**Methods for Containment** Remove all possible sources of ignition. Contain by diking spill with dry earth, sand or other non-combustible inert material. For large spills, dike well ahead of the liquid.

**Methods for Cleaning Up** Collect and keep material in suitable, closed containers for disposal. Dispose of in accordance with federal, state and local regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

#### **Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing vapor. Use only outdoors or in a well-ventilated area. At room temperature, general mechanical room ventilation is sufficient. Local ventilation is recommended at points where heated material may vent fumes to the workplace. Do not cut or puncture container. Do not weld on or near the container.

#### **General Hygiene**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before reuse. Discard contaminated shoes. See also Section 8 for additional information on hygiene measures.

### Conditions for Safe Storage (Including any Incompatibilities)

#### **Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Avoid excessive temperatures, sparks and open flames. Store away from incompatible substances.

#### **Packaging Materials**

Do not transfer to unmarked containers. Reuse of empty drums or containers is not recommended. Dispose of all empty containers properly, in accordance with federal, state and local regulations.

#### **Incompatible Materials**

Strong oxidizing agents, strong acids, strong bases, amines

## 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.

### Control Parameters

#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

### Individual Protection Measures

#### **Eye/Face Protection**

Wear approved chemical safety goggles.

#### **Skin and Body Protection**

Wear chemical resistant, impermeable gloves. Use chemical resistant apron or other impermeable clothing, if needed, to avoid contaminating regular clothing.

#### **Respiratory Protection**

No protection is ordinarily required under normal conditions of use with adequate ventilation. In case of inadequate ventilation, wear respiratory protection.

#### **General Hygiene**

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Slight aromatic
<b>Appearance</b>	Colorless to pale yellow liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Colorless to pale yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	> 200 °C (> 392 °F)	
Flash Point	> 200 °C (> 392 °F)	Seta flash closed cup
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limit	Not available	
Lower Flammability Limit	Not available	
Vapor Pressure	< 1 mm Hg	@ 20 °C (68°F)
Relative Vapor Density	Not determined	
Specific Gravity	1.2	(water = 1) @ 25 °C (77 °F)
Water Solubility	Negligible	@ 25 °C (77 °F)
Solubility in Other Solvents	Not determined	
Partition Coefficient (n-Octanol/Water)	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	2000–8000 cP	@ 50 °C (122 °F)
Explosive Properties	Not explosive	
Oxidizing Properties	Not oxidizing	

## 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 unless catalyzed by amines, strong acids, strong bases, alcohols or strong oxidizing agents. This product will autopolymerize at very high temperatures.

### Conditions to Avoid

Exposure to elevated temperatures and ignition sources

### Incompatible materials

Strong oxidizing agents, strong acids, strong bases, amines

### Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

<b>Inhalation</b>	Breathing large amounts of chemical vapor from heated material may cause irritation of the respiratory tract and mucous membranes.
<b>Eye Contact</b>	Exposure may cause eye irritation.
<b>Ingestion</b>	Material may cause irritation if swallowed. Consult a doctor/physician.
<b>Skin Contact</b>	Exposure may cause skin irritation or an allergic skin reaction. Exposure may cause drying, dermatitis, redness or cracking of the skin. Pre-existing skin conditions may be aggravated by exposure to this material.

### Information on Acute Toxicological Effects

Chemical Name	Oral LD50	Dermal LD50
Epoxy phenol novolac resin 28064-14-4	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )

### Information on Physical, Chemical and Toxicological Effects

<b>Symptoms</b>	Please see Section 4 of this SDS for symptoms.
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### Delayed and Immediate Effects and also Chronic Effects from Short-term and Long-term Exposure

<b>Sensitization</b>	This product may cause skin sensitization.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP.
<b>Mutagenicity</b>	This product has exhibited mixed results for mutagenic activity in <i>in vitro</i> test systems. Mutagenicity was negative in <i>in vivo</i> genotoxicity assays.
<b>STOT</b>	Single and repeated exposures: Classification criteria are not met, based on available data.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life. Toxic to aquatic life with long-lasting effects.

Chemical Name	Fish LC50	Crustacea EC50
Epoxy phenol novolac resin 28064-14-4	> 1–10 mg/L 96 h (similar materials)	> 1–10 mg/L 48 h (similar materials)

### Persistence/Degradability

Evidence suggests that this product is likely not readily biodegradable.

### Bioaccumulation

Evidence indicates that this product is not bioaccumulative.

### Mobility

Not determined

### Other Adverse Effects

Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations. Commission a waste disposal company or licensed local public body to dispose of the material via incineration.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**



**Proper Shipping Name by Regulatory Entity**

**DOT Domestic** Not regulated

**DOT International** Environmentally hazardous substance, liquid, n. o. s. (Epoxy phenol novolac resin)

**IMDG** Environmentally hazardous substance, liquid, n. o. s. (Epoxy phenol novolac resin)

**IATA** Environmentally hazardous substance, liquid, n. o. s. (Epoxy phenol novolac resin)

Regulatory Information	UN Number	Class	Packing Group	Label
DOT Classification International	UN-3082	9	III	
IMDG Classification	UN-3082	9	III	
IATA Classification	UN-3082	9	III	

**Note**

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, 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 with known CAS numbers that are regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**SARA 302**

No chemicals with known CAS numbers in this material are subject to the reporting requirements of SARA Title III, Section 302.

**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 Right-to-know Regulations

Chemical Name	New Jersey	Pennsylvania
Epoxy phenol novolac resin 28064-14-4	X	X

## 16. OTHER INFORMATION

**NFPA**
**Health Hazards**

2

**Flammability**

1

**Instability**

0

**Special Hazards**

Not determined

**HMIS**
**Health Hazards**

2

**Flammability**

1

**Physical Hazards**

0

**Personal Protection**

Not determined

**Issue Date**

01-October-2000

**Revision Date**

18-November-2020

**Revision Note**

Revised Sections 11, 12, 14, 15

**GHS Version**

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**Disclaimer**

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**