



SAFETY DATA SHEET

Issue Date 03-March-2022

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name LINDOXY 500

Other Means of Identification

SDS # LC-128

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 Odorless

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

Synonyms Bisphenol A diglycidyl ether

Chemical Name	Product Name	CAS No	Weight %
2,2'-[(1-Methylethylidene)bis(4,1-phenylene-oxymethylene)] bisoxirane	Lindoxy 500	1675-54-3	100

** 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	Move person to fresh air. Call a doctor/physician as necessary.
Eye Contact	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.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a doctor/physician.
Skin Contact	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

Symptoms	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)

Note to Physician	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 (CO₂)

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, phenolics, 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 self-contained breathing apparatus (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 Absorb spill with appropriate inert dry material. 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.
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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

Physical State Appearance Color	Liquid Colorless to pale yellow liquid Colorless to pale yellow	Odor Odor Threshold	Odorless Not determined
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<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	Not determined	
Melting Point/Freezing Point	-16 °C (3 °F)	
Boiling Point/Boiling Range	> 204 °C (> 399 °F)	
Flash Point	254 °C (489 °F)	Closed cup
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limit	Not available	
Lower Flammability Limit	Not available	
Vapor Pressure	Negligible	@ 25 °C (77 °F)
Relative Vapor Density	Not determined	
Specific Gravity	1.17	(water = 1) @ 25 °C (77 °F)
Water Solubility	Negligible	@ 25 °C (77 °F)
Solubility in Other Solvents	Not determined	
Partition Coefficient (n-Octanol/Water)	log P _{ow} = 2.82	(estimated)
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	9830–11540 cSt	@ 25 °C (77 °F)
Dynamic Viscosity	11500–13500 cP	@ 25 °C (77 °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 under normal conditions of storage and use.

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, phenolics and other products of incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	Breathing large amounts of chemical vapor from heated material may cause irritation of the respiratory tract and mucous membranes.
Eye Contact	Exposure may cause eye irritation.
Ingestion	Material may cause irritation if swallowed. Consult a doctor/physician.
Skin Contact	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

Product Name	Oral LD50	Dermal LD50
Lindoxy 500 1675-54-3	> 11000 mg/kg (Rat)	> 20000 mg/kg (Rabbit)

Information on Physical, Chemical and Toxicological Effects

Symptoms	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

Sensitization	This product may cause skin sensitization.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP.
Mutagenicity	This product has exhibited inconclusive results for mutagenic activity.
STOT	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.

Product Name	Fish LC50	Crustacea EC50	Algae/aquatic plants EC50
Lindoxy 500 1675-54-3	Oryzias latipes 1.4 mg/L 96 h	Daphnia magna 1.7 mg/L 48 h (static)	Scenedesmus capricornutum 11 mg/L 72 h (static)

Persistence/Degradability

Evidence suggests that this product is likely not readily biodegradable.

Bioaccumulation

Evidence indicates that this product is not bioaccumulative. Estimated log P_{ow} = 2.82

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.

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. (Bisphenol A diglycidyl ether)

IMDG Environmentally hazardous substance, liquid, n. o. s. (Bisphenol A diglycidyl ether)

IATA Environmentally hazardous substance, liquid, n. o. s. (Bisphenol A diglycidyl ether)

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, 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 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

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

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 2	Flammability 1	Instability 0	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 2	Flammability 1	Physical Hazards 0	Personal Protection Not determined
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GHS Version	1			

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