



# SAFETY DATA SHEET

Issue Date 07-June-2007

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Version 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** LINDRON 201

### Other Means of Identification

**SDS #** LC-049

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

**Recommended Use** Resin solution

### 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

### Classification

Flammable Liquids	Category 3
Specific Target Organ Toxicity (Single Exposure)	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Skin Corrosion/Irritation	Category 2
Aspiration Hazard	Category 1

### Signal Word

**Danger**

### Hazard Statements

H226: Flammable liquid and vapor  
H336: May cause drowsiness or dizziness  
H319: Causes serious eye irritation  
H315: Causes skin irritation  
H304: May be fatal if swallowed and enters airways



**Appearance** Clear, colorless liquid

**Physical State** Liquid

**Odor** Petroleum solvent

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

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharge.

P261: Avoid breathing fumes or vapors.

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

P271: Use only outdoors or in a well-ventilated area.

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

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

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P352: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P363: Wash contaminated clothing 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.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331: Do NOT induce vomiting.

P370 + P378: In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish.

#### **Precautionary Statements - Storage**

P403 + P235: Store in a well-ventilated place. Keep cool.

P233: Keep container tightly closed.

P405: Store locked up.

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

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

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

Chemical Name	CAS No	Weight-%
Copolymer of Vinyl toluene and 2-Ethylhexylacrylate	60381-61-5	49–51
Petroleum naphtha, hydrotreated heavy	64742-48-9	0–51
Distillates (petroleum), hydrotreated light	64742-47-8	0–51

\*\* 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>General</b>	If exposed to this product in any way outside of normal handling and if there is concern about this exposure, get medical advice or attention.
<b>Inhalation</b>	Move person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Get medical attention immediately.
<b>Eye Contact</b>	Rinse cautiously with water while holding eyelids apart for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs or persists.
<b>Ingestion</b>	If swallowed, do not induce vomiting because of danger of aspirating liquid into lungs. If spontaneous vomiting occurs, keep head below hips to prevent aspiration. Monitor breathing. If person is drowsy or unconscious, place on left side with head down. Never give anything by mouth to an unconscious person. If possible, do not leave the person unattended. Call immediately a physician or your local Poison Control Center.
<b>Skin Contact</b>	Thoroughly wash exposed area with plenty of soap and water while removing all contaminated clothing, including shoes. Launder contaminated clothing before reuse. Get immediate medical attention if skin is damaged or if skin irritation develops or persists.

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

<b>Symptoms</b>	May cause skin irritation in some individuals upon prolonged contact. Eyes may have symptoms of redness, watering and stinging from overexposure. May cause irritation or inflammation of mucous membranes and upper respiratory tract. Overexposure to this material by swallowing, absorption through skin, or prolonged breathing of vapors may cause nausea, vomiting, diarrhea, headache, weakness, dizziness, drowsiness, fatigue, irregular heartbeat or unconsciousness.
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### Indication of any Immediate Medical Attention and Special Treatment Needed

<b>Note to Physicians</b>	Treat symptomatically. Treatment of overexposure should be directed toward the control of symptoms and be based on the clinical condition of the patient. Overexposure via inhalation may be associated with cardiac arrhythmia, which may occur if sympathomimetic drugs are given to the victim.
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## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

<b>Suitable Media</b>	Dry chemical, carbon dioxide (CO <sub>2</sub> ), alcohol-resistant foam
<b>Unsuitable Media</b>	High volume water jet

### Specific Hazards Arising from the Chemical

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations distant from the material handling point. Vapors may form explosive mixtures in air. Static discharges may occur in this material.

**Hazardous Combustion Products** Carbon monoxide, carbon dioxide, aldehydes, hydrocarbons

### 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. Cool surrounding fire-exposed equipment, containers, tanks and structures with water spray. Take precautionary measures against static discharges.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

<b>Personal Precautions</b>	Use personal protective equipment as required (see Section 8). Persons not wearing protective equipment should be excluded from the area of the spill until clean-up has been completed. Eliminate or remove all sources of ignition. Ensure adequate ventilation. Avoid breathing fumes or vapors.
<b>Environmental Precautions</b>	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 Containment and Cleaning Up

<b>Methods for Containment</b>	Ensure adequate ventilation. Suppress vapors with a water spray jet. Stop spill at source, if safe to do. Dike area of spill to prevent spreading or entry into sewers, basements or confined areas. Pump liquid to salvage tanks or containers.
<b>Methods for Cleaning Up</b>	Spillage may be taken up with non-combustible, absorbent material. Collect resulting material in suitable containers for disposal. Clean up and dispose of material in accordance with federal, state and local regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

<b>Advice on Safe Handling</b>	Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing fumes or vapors. Use only with adequate ventilation. Keep containers tightly closed. Keep containers upright to prevent leakage. Avoid all possible sources of ignition. Take precautionary measures against static discharges. Ground and bond containers when transferring material. Use non-sparking tools and explosion-proof equipment.
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### Other Precautions

Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperatures and pressures, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published autoignition temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Electrostatic discharge may provide an ignition source for flammable liquids. The organic solvents in this product are considered nonconductive, and an additive is included in the formulation to increase the product's conductivity to greater than 100 picosiemens per meter. Other precautions may be required depending on specific conditions of storage and transfer. For guidance on preventing electrostatic ignition, consult NFPA 77, Recommended Practice on Static Electricity (2007), API Recommended Practice (2003), Protection Against Ignitions Arising out of Static, Lightning and Stray Currents (2008).

### Conditions for Safe Storage, Including any Incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed when not in use and store in a dry, cool and well-ventilated area. Avoid excessive temperatures.
<b>Packaging Materials</b>	Do not transfer to unmarked containers. Empty containers may retain product residue (liquid or vapor). Do not pressurize, cut or weld empty containers, and do not expose them to heat or ignition sources.
<b>Incompatible Materials</b>	Strong oxidizing agents, strong acids, alkalis

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Petroleum naphtha, hydrotreated heavy 64742-48-9	Not established	TWA: 400 mg/m <sup>3</sup>	TWA: 400 mg/m <sup>3</sup>
Distillates (petroleum), hydrotreated light 64742-47-8	TWA: 200 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 2000 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup>

**Control Parameters**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection** Wear approved safety goggles. Eye-wash facilities should be readily available.

**Skin and Body Protection** Wear chemical resistant, impermeable gloves. Wear suitable protective clothing.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. Wear appropriate breathing apparatus if air renewal is not sufficient to maintain vapor concentrations below threshold limit values.

**General Hygiene** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Petroleum solvent
<b>Appearance</b>	Clear, colorless liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Colorless		
<b>Property</b>	<b>Values</b>	<b>Remarks/Method</b>	
<b>pH</b>	Not determined		
<b>Melting Point/Freezing Point</b>	< -49 °C (< -56 °F)		
<b>Boiling Point/Boiling Range</b>	149–215 °C (300–419 °F)		
<b>Flash Point</b>	42 °C (108 °F)	(Closed cup)	
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	n/a-liquid		
<b>Upper Explosion Limit</b>	6.0%		
<b>Lower Explosion Limit</b>	0.7%		
<b>Vapor Pressure</b>	< 1 mm Hg	@ 20 °C (68 °F)	
<b>Relative Vapor Density</b>	5	(air = 1)	
<b>Specific Gravity</b>	0.8	(water = 1)	
<b>Water Solubility</b>	Negligible	@ 25 °C (77 °F)	
<b>Solubility in Other Solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Autoignition Temperature</b>	> 230 °C (> 446 °F)		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	1760–3620 cP	@ 25 °C (77 °F)	
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		
<b>Percent Volatile by Weight</b>	49%–51%		

## 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

Avoid heat, sparks, open flames and other ignition sources.

### Incompatible Materials

Strong oxidizing agents, strong acids, alkalis

### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide, aldehydes, hydrocarbons

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

<b>Inhalation</b>	Breathing small amounts during normal handling is unlikely to be harmful. Breathing large amounts may cause irritation of the nose, throat and respiratory tract, depression of the central nervous system, nausea, headache, dizziness, drowsiness or unconsciousness. Pre-existing lung disorders, such as asthma, may be aggravated by this material.
<b>Eye Contact</b>	Exposure may cause eye irritation, including stinging, redness and tearing.
<b>Ingestion</b>	Ingestion in sufficient amounts may cause gastrointestinal irritation, resulting in nausea, vomiting and diarrhea, or depression of the central nervous system, resulting in nausea, headache, dizziness, drowsiness or unconsciousness.
<b>Skin Contact</b>	Exposure causes skin irritation or drying. Prolonged exposure may cause dermatitis, resulting in burning, redness, cracking or other skin damage. Pre-existing skin disorders may be aggravated by exposure to this material. Skin absorption is possible, but harmful effects are not expected from this route under normal conditions of handling and use.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum naphtha, hydrotreated heavy 64742-48-9	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 4.96 mg/L ( Rat ) 4 h ( dust / mist )
Distillates (petroleum), hydrotreated light 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.20 mg/L ( Rat ) 4 h ( dust / mist )

### Information on Physical, Chemical and Toxicological Effects

**Symptoms**      Please see Section 4 of this SDS for symptoms.

### Delayed and Immediate Effects as well as Chronic Effects from Short-term and Long-term Exposure

<b>Mutagenicity</b>	Mammalian cell gene mutation assays, <i>in vivo</i> chromosome aberration assays, and bacterial and mammalian cell test cultures give negative results for mutagenic activity.
<b>Carcinogenicity</b>	This product does not contain reportable levels of any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP.
<b>Aspiration Hazard</b>	This product is considered to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Possibly harmful to aquatic life

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Petroleum naphtha, hydrotreated heavy 64742-48-9		Oncorhynchus mykiss 8.8 mg/L 96 h	Daphnia pulex 2.7–5.1 mg/L 48 h
Distillates (petroleum), hydrotreated light 64742-47-8	Pseudokirchneriella subcapitata 1 mg/L 72 h (static)	Oncorhynchus mykiss 25 mg/L 96 h (static)	Daphnia magna 1.4 mg/L 48 h (static)

### Persistence and Degradability

Not determined

### Bioaccumulation

Chemical Name	CAS No	Partition Coefficient (log P <sub>ow</sub> )
Distillates (petroleum), hydrotreated light	64742-47-8	5.1–8.8

### Mobility

Not determined

### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable federal, state and local laws and regulations. Disposal can only occur in properly permitted facilities. This product, as shipped, is a hazardous waste upon disposal due to its ignitability, according to Federal Regulation 40 CFR 261.22. The transportation, storage and treatment of this material in disposal must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable federal, state and local laws and regulations. Do not re-use empty containers. Empty containers may retain product residue (liquid or vapor). Do not pressurize, cut or weld empty containers, and do not expose them to heat or ignition sources.





## 15. REGULATORY INFORMATION

### International Inventories

**Component 60381-61-5 Listed** TSCA, DSL/NDSL, ENCS, IECSC, KECI, PICCS, TCSI, AICS, NZIoC  
**Other Components Listed** TSCA, DSL/NDSL, EINECS/ELINCS, 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) 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).

**CWA (Clean Water Act)** This product does not contain reportable levels of any substances with known CAS numbers that are regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**SARA 311/312** Fire hazard, acute health hazard

### United States State Regulations

**California Proposition 65** This product does not contain reportable levels of any substances with known CAS numbers that are regulated by California Proposition 65.

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

Chemical Name	California	Massachusetts	New Jersey	Pennsylvania
Petroleum naphtha, hydrotreated heavy 64742-48-9	X	X	X	X
Distillates (petroleum), hydrotreated light 64742-47-8	X	X	X	X

## 16. OTHER INFORMATION

<b><u>NFPA</u></b>	<b>Health Hazards</b> 1	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> 1	<b>Flammability</b> 2	<b>Physical Hazards</b> 0	<b>Personal Protection</b> Not determined
<b>Issue Date</b>	07-June-2007		<b>Revision Date</b>	16-September-2020
<b>Revision Note</b>	Reviewed/updated		<b>GHS Version</b>	2

#### 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**