

## MATERIAL SAFETY DATA SHEET

Section I – Product Information			
<b>Product Name or Identity:</b>	<b>Modified LCA Base (dehydrated)</b>		
<b>Manufacturer's Name:</b>	Neogen Corporation	<b>Emergency Phone No.:</b>	517/372-9200
	620 Leshler Place	<b>Fax No.:</b>	517/372-0108
	Lansing, Michigan 48912	<b>e-mail:</b>	neogen-info@neogen.com
<b>Date Prepared or Revised:</b> 11/20/01			

Section II – Hazardous Ingredients / Identity Information			
<b>Hazardous Components:</b> (Specific Chemical Identity: Common Names)	<b>OSHA PEL</b> (Permissible Exposure Limits)	<b>ACGIH TLV</b> (Threshold Limit Value)	<b>Toxicity Data</b> <b>LD<sub>50</sub></b>
Lithium Chloride	N/A	N/A	ORL-RAT .526 g / kg
Sodium Chloride, NaCl, Common salt	N/A	N/A	ORL-RAT 3 g/kg

Section III – Physical Characteristics	
<b>Boiling Point:</b> 360°C (Lithium Chloride) 1413°C (Sodium Chloride)	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 2.04 (Sodium Phosphate) 2.16 (Sodium Chloride), 2.07 (Lithium Chloride)
<b>Vapor Pressure (mm Hg.):</b> 865°C (Sodium Chloride)	<b>Melting Point:</b> 804°C (Sodium Chloride), 613°C (Lithium Chloride)
<b>Vapor Density (AIR = 1):</b> N/A	<b>Evaporation Rate (Butyl Acetate = 1):</b> N/A
<b>Solubility in Water:</b> 35.7 g/100 g at 0°C	
<b>Appearance and Odor:</b> Crystalline, solid (Lithium Chloride), Colorless crystals or white powder (Sodium Chloride)	

Section IV – Fire and Explosion Hazard Data	
<b>Flash Point (Method Used):</b> Not applicable	<b>Flammable Limits:</b> LEL (Lower Explosive Limit) - N/A UEL:(Upper Explosive Limit) - N/A
<b>Extinguishing Media:</b> Suitable extinguishing agents. CO <sub>2</sub> , extinguishing powder or water spray.	
<b>Special Fire Fighting Procedures:</b> Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
<b>Unusual Fire and Explosion Hazards:</b> During heating or in case of fire, poisonous gases are produced.	

Section V – Reactivity Data			
<b>Stability:</b>	Unstable		Conditions to Avoid: Moisture and air sensitive.
	Stabile	X	
<b>Incompatibility (Materials to Avoid):</b> Incompatible with strong acids, metals, oxidizers, and bromine trifluoride.			
<b>Hazardous Decomposition or Byproducts:</b> Carbon dioxide (CO <sub>2</sub> ), Lithium oxide (LiOx), Phosphorus Oxides (POx), Hydrogen Chloride (HCl), and Sulfur Oxides (SOx).			
<b>Hazardous Polymerization:</b>	May Occur		<b>Conditions to Avoid:</b> Incompatible materials.
	Will Not Occur	X	

Section VI – Health Hazard Data			
<b>Route(s) of Entry:</b>	Inhalation? Yes	Skin? Yes	Ingestion? Yes
<b>Health Hazards:</b> (Acute and Chronic)	Harmful. May be harmful if swallowed, absorbed through skin, or inhaled. Irritating to eyes, respiratory system, and skin.		
<b>Carcinogenicity:</b>	NTP? No (National Toxicology Program)	IARC Monographs? No (International Agency for Research in Cancer)	OSHA Regulated? No
<b>Signs and Symptoms of Exposure:</b> Irritant to skin and mucous membranes. Irritating effect on the eyes. If Lithium Chloride is swallowed, symptoms include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.			
<b>Medical Conditions Generally Aggravated by Exposure:</b> Hazardous chemicals in this product is suspected to cause birth defects.			
<b>Emergency / First Aid Procedures:</b>	Ingestion: If swallowed, seek medical attention immediately.		
	Inhalation: In case of unconsciousness, place patient on side position for transportation. Supply fresh air or oxygen; seek medical attention.		
	Eye Contact: Rinse opened eye for at least 15 minutes under running water. Seek medical attention.		
	Skin Contact: Immediately wash with plenty of soap and water for at least 15 minutes.		

Section VII – Precautions for Safe Handling and Use	
<b>Accidental Release Measures:</b> Wear suitable protective clothing. Wipe up with damp sponge or mop.	
<b>Waste Disposal Method:</b> Dispose in accordance with all applicable federal, state, and local environmental regulations.	
<b>Handling and Storing:</b> Keep container tightly closed. Store at < 30°C in cool, dry conditions. Do not store together with oxidizing and acidic materials.	
<b>Other Precautions:</b> Remove contaminated clothing immediately. Ensure good ventilation / exhaustion at the workplace. Prevent formation of dust.	

Section VIII – Control Measures			
<b>Respiratory Protection (Specify Type):</b> None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.			
<b>Ventilation:</b>	Local Exhaust: 50 – 100 CFM	Special: N/A	
	Mechanical (General): N/A	Other: N/A	
<b>Protective Gloves:</b> Proper disposable gloves		<b>Eye Protection:</b> Safety goggles	
<b>Other Protective Clothing or Equipment:</b> Uniform, lab coat, or disposable lab wear.			
<b>Work / Hygienic Practices:</b> Follow the usual precautionary measures for handling chemicals / powder. Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes, skin, and clothing.			

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.