

Material Safety Data Sheet

Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200

NFPA Fire: 2

Health: 2

Reactivity: 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name, Address: **Franklin Cleaning Technology - P.O. Box 214 - Great Bend, KS 67530**

Product Name: LB #4 Cleaner/Degreaser-Citral

Product Number: F4500

Chemical Family: Surfactant/Citrus solvent based cleaner

Package Size: 1 Gallon

EPA Reg. No: n/a

Emergency Telephone No. 620-792-1711

Preparer: Bill Dayton

Date: 05/06/02

Signature:

SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

Hazardous Components	CAS#	OSHA TWA	ACGIH TWA	Percent
**Diethylene glycol monobutyl ether	112-34-5	ne	ne	15
*Nonyl phenoxy poly (ethyleneoxy) ethanol	9016-45-9			<60
*d-limonene	5989-27-5			<35

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

No Physical Hazards	<input type="checkbox"/>	Flammable Gas	<input type="checkbox"/>	Flammable Liquid/Solid	<input type="checkbox"/>	Water Reactive	<input type="checkbox"/>
Combustible	<input checked="" type="checkbox"/>	Flammable Aerosol	<input type="checkbox"/>	Pyrophoric	<input type="checkbox"/>	Oxidizer	<input type="checkbox"/>
Compressed Gas	<input type="checkbox"/>	Explosive	<input type="checkbox"/>	Unstable - Reactive:	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>

Boiling Point, °F: 325 F

Solubility in Water: Miscible

Evaporation Rate: unknown

Vapor Pressure: 2 @ 20 C

Specific Gravity (water =1): 0.969

pH: n/a

Vapor Density: 0.012

%Volatiles by Weight: 45

Appearance and Odor: Clear orange with strong citrus odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method): 120 F Tag closed cu Flammable Limits: LEL: unknown UEL: unknown

Extinguishing Media: Foam, water fog, carbon dioxide, or dry chemical

Special Fire: Self contained breathing apparatus with full face piece.

Fighting Procedures:

Unusual Fire and Explosion Hazards: Never use welding or cutting torch on or near container because product can ignite.

SECTION V - REACTIVITY DATA

Stability: Unstable
Stable Conditions to Avoid: n/a

Incompatibility: Strong oxidizing agents.
(Materials to Avoid)

Hazardous Decomposition Products or Byproducts: Burning product will produce carbon dioxide, carbon monoxide, various hydrocarbons.

Hazardous Polymerization: May Occur: Will Not Occur:
Conditions to Avoid: n/a

Comments:

*Added to comply with the Pennsylvania Worker Right To Know Act of 1984 and the New Jersey Worker & Community Right To Know Act of 1983.

**This product contains one or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See the Hazardous Components in Section II.

SECTION VI - HEALTH HAZARD DATA

F4500

Route (s) of entry:	Inhalation	<input checked="" type="checkbox"/>	Skin:	<input checked="" type="checkbox"/>	Eye:	<input checked="" type="checkbox"/>	Ingestion:	<input checked="" type="checkbox"/>
No Health Hazard	<input type="checkbox"/>	Reproductive toxin	<input type="checkbox"/>	Sensitizer	<input type="checkbox"/>			
Toxic	<input type="checkbox"/>	Irritant	<input checked="" type="checkbox"/>	Carcinogen	<input type="checkbox"/>			
Highly Toxic	<input type="checkbox"/>	Corrosive	<input type="checkbox"/>	See Target Organs	<input checked="" type="checkbox"/>			

TARGET ORGANS

Lungs	<input checked="" type="checkbox"/>	Eyes	<input checked="" type="checkbox"/>	Blood	<input type="checkbox"/>	Teratogen	<input type="checkbox"/>	Mucous Membranes	<input checked="" type="checkbox"/>
Heart	<input type="checkbox"/>	Skin	<input checked="" type="checkbox"/>	Liver	<input type="checkbox"/>	Central Nervous System	<input checked="" type="checkbox"/>	Autonomic Nervous System	<input type="checkbox"/>
Kidney	<input type="checkbox"/>	Prostate	<input type="checkbox"/>	Mutagen	<input type="checkbox"/>	Cardiovascular System	<input type="checkbox"/>	Respiratory System	<input type="checkbox"/>
Carcinogenicity:	None Known	<input checked="" type="checkbox"/>	NTP:	<input type="checkbox"/>	IARC:	<input type="checkbox"/>	OSHA Regulated	<input type="checkbox"/>	

Medical Conditions Generally Aggravated by Exposure:

None known

Signs and Symptoms of Exposure:

Redness, irritation of skin, eyes, and mucous membranes. Ingestion causes nausea, dizziness, headache, vomiting. Chemical pneumonia if liquid enters the lungs.

Emergency and First Aid Procedures:

If in eyes or on skin, immediately flush with plenty of water for 15 minutes. Get medical attention. If swallowed, get medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Small amount: Mop up, rinse with water. Large Spills: Mop up, absorb with an inert, dike or turn container over as applicable.

Waste Disposal Method:

Dispose in accordance with Local, State, and Federal regulations

Potential EPA Hazardous Waste Code(s): D001

Steps to be taken in handling and storage:

Store in original container, tightly closed at 40 - 90 F. Keep away from heat, sparks or open flame. Read and follow label use directions. Keep out of reach of children.

SECTION VIII - CONTROL MEASURES

Respiratory Protection(Specify Type):

None required, except for misted applications in a confined area.

Ventilation: Local Exhaust: Mechanical: Special: None required

Protective Gloves: Recommended Eye Protection: Recommended

Other Protective Clothing and Equipment:

none required

SECTION IX - SHIPPING INFORMATION

DOT Proper Shipping Name and Number:

Not Regulated

NE = Not Established

N/A = Not Applicable