

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name LC-4000 Medium Gloss Top Coat
Product Code 2.3.063
Product Description LC-4000 Medium Gloss Top Coat
Manufacturer or supplier's details Leather Refinishing Technologies
 529 Caboose Drive
 Quakertown PA 18951
Company Phone Number (215) 536-0625
Emergency Telephone Number (267) 228-5682

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

May cause skin irritation and/or dermatitis
Irritating to eyes

Appearance Opaque **Physical State** Liquid. **Odor** Slight.

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation.

Acute Effects

Eyes Irritating to eyes.
Skin Substance may cause slight skin irritation.
Inhalation May cause irritation of respiratory tract
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic Effects

Chronic Toxicity No known chronic effects based on supplied information.

See also section 11

Aggravated Medical Conditions No information available

Potential Environmental Effects There is no known ecological information for this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization Mixture

Hazardous Ingredients Ingredients not listed in this section are non-hazardous or proprietary.

Chemical Name	CAS-No	Weight %
1-Methyl-2-pyrrolidone	872-50-4	1-5
Triethylamine	121-44-8	1 - 5

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, obtain medical attention.
Ingestion	Rinse mouth with water. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, get medical help or contact a Poison Control Center right away.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Non-combustible.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	None.
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x).
<u>Explosion Limits</u>	
Impact sensitivity	No
Sensitivity to static discharge	No
Specific Hazards Arising from the Chemical	Keep product and empty container away from heat and sources of ignition
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
NFPA	
Health 1	Flammability 0
	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spill with inert material (e.g. sand, silical gel, binder).
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Stir before use.
Storage	Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Keep from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico OEL (TWA)	NIOSH IDLH
1-Methyl-2-pyrrolidone 872-50-4			TWA: 400 mg/m ³		
Triethylamine 121-44-8	TWA: 1 ppm Skin STEL: 3 ppm	TWA: 10 ppm	TWA: 1 ppm STEL: 3 ppm	TWA: 100 mg/m ³ TWA: 25 ppm STEL: 40 ppm STEL: 160 mg/m ³	200 ppm

Engineering Measures

Showers
Eyewash stations
Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection

Tightly fitting safety goggles

Skin Protection

Wear protective gloves/clothing.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque
Color	White
Odor	Slight
Physical State	Liquid
pH	7.5
Flash Point	Not applicable
Autoignition Temperature	No information available
Boiling Point/Range	Estimated > 100 °C / 212 °F
Evaporation Rate	No information available
Vapour Pressure	No information available
Specific Gravity	1.03
Viscosity	150 cps
Water Solubility	Dispersible
Physical Property Note	Values are not product specifications.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Do not freeze. Heat, flames and sparks.
Incompatible Products	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x). Thermal decomposition can lead to release of irritating gases and vapours.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information No acute toxicity information is available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-Methyl-2-pyrrolidone	3598 mg/kg (Rat)	2000 mg/kg (Rabbit)	
Triethylamine	460 mg/kg (Rat)	570 µL/kg (Rabbit)	3496 ppm (Rat) 1 h

Irritation Mechanical irritation of the eyes is possible.

Chronic Toxicity

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is listed with NTP, IARC or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxic effects

Chemical Name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1-Methyl-2-pyrrolidone	EC50 > 500 mg/L 72 h	LC50= 1072 mg/L Pimephales promelas 96 h LC50= 1400 mg/L Poecilia reticulata 96 h LC50= 4000 mg/L Leuciscus idus 96 h LC50= 832 mg/L Lepomis macrochirus 96 h		EC50 = 3135 mg/L 96 h
Triethylamine		LC50= 44 mg/L Pimephales promelas 96 h	EC50 = 127 mg/L 2 h EC50 = 95 mg/L 17 h	EC50 = 200 mg/L 48 h

Persistence and Degradability No information available.

Bioaccumulation Bioaccumulative potential.

Chemical Name	log Pow
1-Methyl-2-pyrrolidone	-0.46
Triethylamine	1.45

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

US EPA Waste Number No information available

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Triethylamine - 121-44-8	waste number U404	Included in waste streams: K156, K157		waste number U404

14. TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
MEX Not regulated
ICAO/IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are listed on TSCA or are exempt.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
1-Methyl-2-pyrrolidone	872-50-4	1-5	1.0
Triethylamine	121-44-8	1 - 5	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard No
 Acute Health Hazard Yes
 Fire Hazard No
 Sudden Release of Pressure Hazard No
 Reactive Hazard No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Triethylamine 121-44-8 (1 - 5)	5000 lb			X

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA EHS RQs
Triethylamine	5000 lb	

U.S. State Regulations

California Proposition 65 This product contains one or more substances listed on California Proposition 65.

Component	California Prop. 65
1-Methyl-2-pyrrolidone 872-50-4 (1-5)	developmental toxicity, initial date 6/15/01

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island

1-Methyl-2-pyrrolidone	X		X		
Triethylamine	X	X	X	X	X

Other International Regulations

Mexico - Grade Slight risk, Grade 1

Canada

WHMIS Statement

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials



16. OTHER INFORMATION

NFPA

Health 1

Flammability 0

Instability 0

HMIS

Health 1

Flammability 0

Physical Hazard 0

Issuing Date

13-Apr-2012

Revision Date

13-Apr-2012

Revision Note

Reason for revision

Initial Release Update to Format

Disclaimer

The information provided on this MSDS / SDS 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 as 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 material or in any process, unless specified in the text