

MATERIAL SAFETY DATA SHEET

DATE OF PREPARATION: 10-01-07

I. General Information

CHEMICAL NAME & SYNONYM:		TRADE NAME:	L-231 BRYTONE
CHEMICAL FAMILY:	Synthetic Detergent	FORMULA:	Proprietary
PROPER DOT SHIPPING NAME:	Cleaning Compound, Liquid	DOT HAZARD CLASSIFICATION:	Corrosive
SUPPLIER:	LICO, INC. 929 FIFTH AVENUE MCKEESPORT, PA 15132, USA	SUPPLIER'S PHONE NUMBER:	(412) 422-7786
		24-HOUR EMERGENCY PHONE NUMBER:	1-800-535-5053

II. Ingredients

PRINCIPAL COMPONENTS	CAS #	THRESHOLD LIMIT VALUE (UNITS)
PHOSPHORIC ACID	7664-38-2	1MG/M3 TWA8
HYDROCHLORIC ACID	7647-01-0	5PPM
PHOSPHATE ESTER	N/D	1MG/M3
NONYLPHENOL POLYETHYLENE GLYCOL ETHER	127087-87-0	N/A
AMMONIUM BIFLUORIDE	1341-49-7	35PPM

III. Physical Data

BOILING POINT (°F):	212 ⁰ F	SPECIFIC GRAVITY (H₂O=1):	1.071
VAPOR PRESSURE (MM HG):	N/A	PERCENT VOLATILE (%):	91.7
VAPOR DENSITY (AIR=1):	>1	EVAPORATION RATE (WATER = 1):	<1
SOLUBILITY IN WATER:	Complete	pH:	1
APPEARANCE AND ODOR:	Clear liquid with characteristic odor.		

IV. Fire & Explosion Hazard Data

FLASH POINT (TEST METHOD):	None (TCC)	LOWER EXPLOSIVE LIMIT (LEL):	N/A
AUTO IGNITION TEMPERATURE:	None	UPPER EXPLOSIVE LIMIT (UEL):	N/A
EXTINGUISHING MEDIA:	Water, Dry Chemical, CO ₂	UNUSUAL FIRE & EXPLOSION HAZARDS:	None
SPECIAL FIRE FIGHTING PROCEDURES:	Use NIOSH/MSHA self contained breathing apparatus.		

V. Health Hazard Data

OSHA-ACGIH THRESHOLD LIMIT VALUE:	5PPM		
CARCINOGEN -NTP PROGRAM:	None	CARCINOGEN - IARC PROGRAM:	None
SYMPTOMS OF EXPOSURE:			
Eyes -	Corrosive. Can cause tissue destruction, permanent damage to the cornea, blindness.		
Skin -	Causes irritation, burns.		
Ingestion -	Can cause burns to mouth and esophagus, abdominal or chest pain, seizures, death.		
Inhalation -	Shortness of breath, lung irritation, fluid in lungs.		
Medical Conditions Aggravated by Exposure:	None		
PRIMARY ROUTES OF ENTRY:	Skin, Eyes, Nose, Mouth		
EMERGENCY FIRST AID:			
Skin:	Wipe off excess material, then wash with soap and water for at least 15 minutes. Remove contaminated clothing. Clean thoroughly before re-use.		
Eyes:	Hold eyelids open and flush with steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention.		
Ingestion:	Seek immediate medical attention. If victim is conscious and alert, give 2-3 glasses of water to drink. Do not induce vomiting. Do not leave victim unattended.		
Inhalation:	Remove victim to fresh air and get immediate medical attention. Monitor victim's breathing while awaiting medical personnel, and administer oxygen or CPR as necessary.		

VI. Reactivity Data

STABILITY:	<input type="checkbox"/> UNSTABLE	<input checked="" type="checkbox"/> STABLE		
INCOMPATIBILITY-Material to Avoid:	Bases, strong oxidizing agents or reducing agents.			
HAZARDOUS POLYMERIZATION:	<input type="checkbox"/> MAY OCCUR	<input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal Oxides of Phosphorus			

VII. Environmental Protection Procedures

SPILL RESPONSE:	Contain Spill. Soak up in an absorbant material. Flush area with water.
WASTE DISPOSAL METHOD:	In accordance with Federal, State and Local regulations.

VIII. Special Protection Information

EYE PROTECTION:	SplashGoggles, Face Mask	SKIN PROTECTION:	Rubber Gloves, Apron
RESPIRATORY PROTECTION:	None Required	VENTILATION RECOMMENDED:	Local Exhaust
OTHER PRECAUTIONS:	None		

IX. Special Precautions

HYGIENIC PRACTICES IN HANDLING & STORAGE:	Avoid Skin or Eye contact.
PRECAUTIONS FOR REPAIR & MAINTENANCE OF CONTAMINATED EQUIPMENT:	Flush with water and allow to air dry.
OTHER PRECAUTIONS:	None