



LOCTITE CORPORATION
North American Group

4450 Cranwood Pky.
Cleveland, Ohio 44128

(216) 663-3011
FAX: (216) 663-3614
24Hour Emergency Number:
CHEM-TEL (800) 255-3924

MATERIAL SAFETY DATA SHEET

DATE: 4/18/94
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I. PRODUCT IDENTIFICATION

PRODUCT NAME: **OURO TM LIQUID STEEL FILLER**
PART NO.: QLS-1
 LS-1
 LS-1-6
 LS-1-Z
 7651139
PRODUCT TYPE: SEALER/FILLER

UPC CODE: (79340)- 81177
 80222
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II. COMPOSITION

INGREDIENTS	CAS. #	% WT.	ACGIH		OSHA	
			TLV	STEL	PEL	STEL
*BARIUM SULFATE	7727-43-7	45-50	10MG/M3#	NONE	10MG/M3#	NONE
CLAY	1332-58-7	20-25	2MG/M3#	NONE	10MG/M3#	NONE
*ACETONE	67-64-1	10-15	750PPM	1000PPM	750PPM	1000PPM
ISOBUTYL ACETATE	110-19-0	5-10	150PPM	NONE	150PPM	NONE
SYNTHETIC RESIN	25086-48-0	5-10	NONE	NONE	NONE	NONE
*BIS (2-ETHYLHEXYL) PHTHALATE	117-81-7	0.1-1	5MG/M3	10MG/M3	5MG/M3	10MG/M3
LATE						N/A
CARBON BLACK	1333-86-4	0.1-1	3.5 MG/M3	NONE	3.5MG/M3	NONE
*PROPYLENE OXIDE	75-56-9	0.1-1	20PPM	NONE	20PPM	NONE
SILICA, AMORPHOUS, PRECIPITATED	112926-00-8	0.1-1	10MG/M3	NONE	6MG/M3	NONE
TATED						N/A

*THIS COMPONENT IS LISTED AS A SARA SECTION 313 TOXIC CHEMICAL.

TARGET ORGANS AND OTHER HEALTH EFFECTS
LITERATURE REFERENCED

BARIUM SULFATE NO DATA
CLAY BLO DEV
ACETONE IRR EYE BLO KID LIV MET NER REP
ISOBUTYL ACETATE IRR
SYNTHETIC RESIN NO DATA
BIS (2-ETHYLHEXYL) PHTHALATE IRR KID LIV LUN MUT REP TER VAS
CARBON BLACK NO DATA
PROPYLENE OXIDE BLO DEV EYE FET GAS IRR LUN MUT
NER NOS REP

SILICA, AMORPHOUS, PRECIPITATED NO DATA
ABBREVIATIONS

FET FETOTOXIC NER NERVOUS SYSTEM
IRR IRRITANT REP REPRODUCTIVE SYSTEM
LIV LIVER VAS VASCULAR
LUN LUNG BLO BLOOD
MUT MUTAGEN EYE EYE
NOS NOSE GAS GASTROINTESTINAL
TER TERATOGEN KID KIDNEY
MET METABOLIC DEV DEVELOPEMENTAL

CARCINOGENICITY

PROPYLENE OXIDE NTP, IARC 2A, NOT ON OSHA
BIS (2-ETHYLHEXYL) PHTHALATE NTP, IARC 2B, OSHA

*CLAY, DUST OSHA PEL 5MG/M3 RESPIRABLE FRACTION

III. CHEMICAL AND PHYSICAL PROPERTIES

VAPOR PRESSURE : 181MM AT 68 DEGREES F
VAPOR DENSITY : MORE THAN 1
SOLUBILITY IN WATER : PARTIAL
APPEARANCE : BLACK LIQUID
SPECIFIC GRAVITY : 1.85
BOILING POINT : 130 -245 DEGREES F
PH : DOES NOT APPLY
ODOR : PENETRATING
EVAPORATION RATE (ETHER=1): UNKNOWN
VOLATILE ORGANIC COMPOUND : 20%

LOCT-01-0004.01

METHOD USED : THEORY

PART #:LS-1

IV. TOXICITY AND HEALTH HAZARD DATA

TOXICITY: EYE IRRITANT. MAY CAUSE BURNING, REDNESS OR SWELLING. INGESTION MAY CAUSE GASTROENTERIC IRRITATION, NARCOSIS, LIVER OR KIDNEY INJURY. IRRITATING BY INHALATION. INHALATION OF HIGH CONCENTRATIONS MAY CAUSE HEADACHE, CONFUSION, DROWSINESS, CONVULSIONS, OR COMA. MAY IRRITATE SKIN. PROLONGED CONTACT MAY CAUSE REDNESS, BURNING, DRYNESS OR CRACKING.

CARCINOGENICITY: NTP : Y SEE SECTION II
IARC MONOGRAPHS: Y SEE SECTION II
OSHA REGULATED: Y SEE SECTION II

HMIS HAZARD COMMUNICATION CODES: HEALTH (3) FIRE (3) REACTIVITY (0)
NFPA CODES: HEALTH (3) FIRE (3) REACTIVITY (0)

TLV: SEE SECTION II-COMPOSITION

PRIMARY ROUTES OF ENTRY:
SKIN, INGESTION, INHALATION

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE:
SKIN CONDITIONS

SYMPTOMS OF OVEREXPOSURE:
IRRITATION OF EYES, NOSE AND THROAT. HEADACHE, CONFUSION, DROWSINESS, CONVULSIONS.

EMERGENCY TREATMENT PROCEDURES:

INGESTION:
DO NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION

INHALATION:
REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST. OBTAIN MEDICAL ATTENTION

SKIN CONTACT:
WASH THOROUGHLY WITH LARGE AMOUNTS OF SOAP AND WATER

EYE CONTACT:
FLUSH WITH WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION

PERSONAL PROTECTION:

EYES: WEAR SAFETY GLASSES OR GOGGLES
SKIN: WEAR RUBBER/PLASTIC GLOVES

VENTILATION:
SUFFICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW TLV

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

FLASH POINT: 0 DEG F METHOD: CLOSED CUP

EXPLOSIVE LIMITS(% BY VOLUME IN AIR) LOWER: 2.0 % UPPER: 13.0 %

RECOMMENDED EXTINGUISHING AGENTS: CO2, DRY CHEMICAL, FOAM

HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMPOSITION:
OXIDES OF CARBON, HYDROGEN CHLORIDE

UNUSUAL FIRE OR EXPLOSION HAZARDS:
VAPORS MAY IGNITE EXPLOSIVELY.

COMPRESSED GASES:
NAME: NONE
PRESSURE AT ROOM TEMPERATURE: DOES NOT APPLY

VI. REACTIVITY DATA

STABILITY: STABLE UNSTABLE
HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS(NON-THERMAL):
NONE KNOWN

INCOMPATIBILITY:
OXIDIZING AGENTS, STRONG ALKALIES, STRONG MINERAL ACIDS, REDUCING AGT

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:
REMOVE SOURCES OF IGNITION. MAINTAIN ADEQUATE VENTILATION. TAKE UP WITH AN INERT ABSORBENT. STORE IN A CLOSED CONTAINER UNTIL DISPOSAL

RECOMMENDED METHODS OF DISPOSAL:
INCINERATE FOLLOWING EPA AND LOCAL REGULATIONS.
CHECK FOR TOXICITY CHARACTERISTIC FOR BARIUM-DUOS.

CERCLA REPORTABLE QTY(IN LBS.): N/A
RCRA HAZARDOUS WASTE NO.: D001

VIII. STORAGE AND HANDLING PROCEDURES

STORAGE: KEEP AWAY FROM FIRE, HEAT, SPARKS.
HANDLING: KEEP AWAY FROM EYES. AVOID PROLONGED BREATHING OF VAPORS AND CONTACT WITH SKIN. CLOSE CONTAINER AFTER USE.

IX. SHIPPING REGULATIONS

DOT TYPE OR CLASS: ORM-D
PROPER SHIPPING NAME: CONSUMER COMMODITY

IATA TYPE OR CLASS: CLASS 3,
PROPER SHIPPING NAME: ADHESIVE UN1133 PG II