

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT IDENTIFICATION

BCE CLEANING SYSTEMS
300 Park Ave Calhoun, Georgia 30701
Inquiry Phone: (800) 850-8623
Emergency Phone: (800) 535-5053
Prepared on 6/28/94

PRODUCT NAME: Luma Brite 1000
PRODUCT CODE: 01-1-611

NFPA Hazard codes:
0 = Least 3 = High
1 = Slight 4 = Extreme
2 = Moderate

NFPA acute hazard rating:
Health: 3
Flammability: 0
Reactivity: 2

SECTION 2 CHEMICAL

Note: List all CERCLA hazardous substances at 1% or greater and CARCINOGENS at 0.1% or greater.

INGREDIENT (chemical name)	CAS#	% range	TLV/ PEL	TWA	STEL/ Ceiling Skin
Sulfuric Acid	7664-93-9	<10	1 mg/m3	1 mg/m3	N/A
Hydrofluoric Acid	7664-39-3	<12	3 ppm Air	3 ppm	6 ppm *
Nonylphenol Poly(oxyethylene)	9016-45-2	<2	N/A	N/A	N/A

NOTE: Sulfuric, Hydrofluoric and Phosphoric Acid are SARA TITLE III SECTION 313 materials subject to reporting by user within the manufacturing section. Sulfuric Acid and Hydrofluoric Acid are SARA TITLE III SECTION 302 reporting for inventories of this product exceeding 800 pounds. Sulfuric, Hydrofluoric, and Phosphoric Acid are SARA TITLE III SECTION 304 materials subject to reporting by user within the manufacturing section.
* OSHA requires skin protection to prevent or reduce exposure to this product.

SECTION 3 EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.
SKIN CONTACT: Immediately flush exposed area with water, soak exposed area with an iced solution of AQUEOUS ZEPHIRAN. Get immediate medical attention.
INHALATION: Remove individual to fresh air. Get immediate medical attention.
INGESTION: Do not induce vomiting. Dilute by giving water and milk. Get immediate medical attention.

NOTE TO PHYSICIAN: Contains Hydrofluoric Acid.

SECTION 4 PHYSIOLOGICAL EFFECTS

PRIMARY ROUTE(S) OF ENTRY INTO BODY: Eyes, Skin contact, Inhalation, Ingestion.

ACUTE EFFECTS:

Eyes: Redness, burning, watering.
Skin: Redness, burning, irritation.
Inhalation: Irritation, burning, coughing.
Ingestion: Burning sensation, nausea.

CHRONIC EFFECTS: None known.

SECTION 5 OCCUPATION CONTROL PROCEDURES

VENTILATION: Local exhaust.

PERSONAL PROTECTION:

Respirator type: None required if concentration is below TLV/PEL. Otherwise use NIOSH approved CCROV or better respirator.
Gloves: Chemical resistant gloves required.
Eye Protection: Chemical splash goggles with face shield.

SECTION 6 PHYSICAL DATA

Appearance/odor: Clear / astringent
Physical state: Liquid
Boiling Point: 180* F
Freeze Point: 30* F
Specific Gravity: 1.08

pH concentrate: 0 -1.0
1% pH dilution: 0 -1.5
Solubility in water: Complete
Vapor pressure: 50 mmHg
Vapor density (air =1): >1
Evaporation rate (water = 1): <1

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SECTION 7 FIRE &

Flash point: None.

Method: T.C.C.

Flammable (explosive) limits in air: N/A.

Suitable extinguishing media: Water / foam.

Hazardous combustion bi-products: Heat, fluorine gas and hydrogen fluoride fumes.

Recommended fire-fighting procedures: Firefighters should wear waterproof protective clothing and self-contained positive ventilation respiratory protection to prevent exposure to toxic and corrosive fumes and mist.

Unusual fire & explosive hazards: Corrosive hydrofluoric acid fumes (hydrogen gas) may be present.

SECTION 8 REACTIVITY DATA

Stability: Stable.

Conditions to avoid: Extreme heat.

Hazardous decomposition products: Heat, fluorine gas and hydrogen fluoride fumes.

Hazardous polymerization: Will not occur.

Incompatibility:

Material to avoid: Strong alkalines, glass, ceramic, oxidizable materials.

Corrosive action on material: Metals.

SECTION 9 STORAGE & HANDLING PRECAUTIONS

Storage: Store at temperatures below 120* F. Do not allow to freeze.

Handling: Wear proper gloves, boots, eye and face protection when handling.

Precautionary labeling: Corrosive.

SECTION 10 ENVIRONMENTAL INFORMATION

Spill or leak procedures:

Small spill/leak: Neutralize with sodium carbonate or sodium bicarbonate. Collect solution in containers for disposal.

Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

Large spill/leak: Neutralize with sodium carbonate or sodium bicarbonate. Collect solution in containers for disposal.

Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

Spill reportable quantity: 800 pounds or more.

Waste disposal method: Consign to waste facility approved by federal, state, and local regulations. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

RCRA or appropriate waste classification: U -134 for Hydrofluoric Acid.

Procedures for handling empty containers: Triple rinse.

Environmental toxicity data: Surfactants are biodegradable.

Other regulatory controls:

Is material classified under the CLEAN WATER ACT (USA) or appropriate water regulations as:

Toxic pollutant? No.

Hazardous substance (SECTION 302)? Yes.

If yes, reportable quantity (R.Q.). 800 pounds.

Is material classified under the CLEAN AIR ACT (USA) or appropriate CLEAN AIR regulations as:

Hazardous air pollutant (SECTION 12)? No.

SECTION 11 PRODUCT IDENTIFICATION

Indicate country/regulatory agency which specifies requirements: USA-DOT/ IMO

Proper shipping name: COMPOUND, CLEANING, LIQUID (containing Hydrofluoric, and Sulfuric Acids)

Hazard class: 8

Identification number: NA1760

Packing Group: II

Labels required: Product, Corrosive, Poison

PRODUCT NAME: Luma Bright 1000

PRODUCT CODE: 01-1-611

PREPARED: 6/28/94

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