

MATERIAL SAFETY DATA SHEET

OSHA Meets 29 CFR 1910.1200 Standards

HMIS HAZARD RATINGS



HEALTH----- 1 0 = INSIGNIFICANT 3 = HIGH
 FLAMMABILITY-- 0 1 = SLIGHT 4 = EXTREME
 REACTIVITY----- 1 2 = MODERATE

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: CORROSIVE CLEANING COMPOUND
 HAZARD CLASS / PKG. GRP: 8 / III
 IDENTIFICATION NUMBER: UN 1824
 REF: 49 ; cfr 173.154, 154, 203, 241
 LABEL: CORROSIVE LIQUID

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

LILLY MILLER MOSS OUT! CLEANER (CONCENTRATE AND HOSE 'N GO)

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MANUFACTURER'S NAME:

LILLY MILLER BRANDS

EMERGENCY TELEPHONE NUMBER

866-866-0301

ADDRESS (NUMBER, STREET, P.O. BOX)

PO BOX 2289

TELEPHONE NUMBER FOR INFORMATION

866-866-0301

(CITY, STATE AND ZIP CODE)

CLACKAMAS, OR 97015

DATE PREPARED: August 16, 2001

SUPERSEDES: August 16, 1999

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME (S))	CAS#	%	AGCY. TWA		ACGIH STEL		SARA / RQ
			PPM	MG/M3	PPM	MG/M3	
SODIUM HYDROXIDE (A, B, C)	1310-73-2						YES 1000
SODIUM METASILICATE	6834-92-0					6	

NOTE: CONTAINS MANY OTHER NON-HAZARDOUS INGREDIENTS CONSIDERED AND HELD AS "TRADE SECRETS".

(a) Indicates the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements

for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 14,000 lbs.) or greater amounts, according to 40 CFR 302.

(b) A "C" in the ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

(c) Indicates listing in Table Z - 2, CFR 1910.1000, detailing acceptable ceiling concentration limits and acceptable maximum peak above the ceiling concentration for an 8 - hour shift.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Corrosive and irritating to upper mucous membranes;

Remove to fresh air; wash mouth and nasal passages with water repeatedly, if breathing difficulties persist, call doctor

SKIN: Corrosive and irritating. Avoid skin contact.

Wash contact area with water and soap. DO NOT attempt to neutralize. If irritation persists, seek medical attention.

EYES: Contact with eyes is painful and irritating. may cause chemical burns as well as conjunctiva

Flush with clean water for 15 minutes while holding eyelids open. Seek medical attention

INGESTION: Corrosive and irritating to digestive tract. May cause gastric distress, stomach pains and vomiting.

Drink large amounts of water or milk; give diluted vinegar or lemon juice. DO NOT induce vomiting; get medical attention!

HEALTH HAZARDS (ACUTE AND CHRONIC):

Corrosive to skin and eyes; prolonged inhalation may cause ulcers to the upper respiratory tract; no long term health effects are known at this time, however, repeated contact with eyes may cause severe irritation.

CARCINOGENICITY: No additional information

NTP ? NO

IARC MONOGRAPHS ? NO

OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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IDENTITY (AS USED ON LABEL) LILLY MILLER MOSS OUT! CLEANER

DATE: 08/16/99

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SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

Non-flammable

FLAMMABLE LIMITS

LEL; Not applicable

UEL; Not applicable

EXTINGUISHING MEDIA

Carbon dioxide, water, water fog, dry chemical, chemical foam

SPECIAL FIRE FIGHTING PROCEDURES

Keep containers cool with water spray to prevent container rupture due to steam buildup. CAUTION - material is corrosive.

UNUSUAL FIRE AND EXPLOSION HAZARDS; None

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED; CAUTION -CORROSIVE. Wash small spills into sanitary sewer.

Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE; Keep container closed when not in use; protect container from abuse; protect from extreme temperatures. CAUTION - material is corrosive. Keep this and all other chemicals out of reach of children.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE); None required while threshold limits (Section II) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 for complete regulations**VENTILATION****LOCAL EXHAUST;**

Required

MECHANICAL (GENERAL); Yes**SPECIAL;** To maintain minimum TWA and STEL levels.**OTHER;** Engineering and work controls as required.**PROTECTIVE GLOVES;** Neoprene or rubber gloves with cuffs.**EYE PROTECTION;** Safety goggles with side shield.**OTHER PROTECTIVE CLOTHING OR EQUIPMENT;** Safety eye bath near by.**WORK / HYGIENIC PRACTICES;** Practice safe work place habits. Minimize body contact, as well as all chemicals in general.

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT

212° F

SPECIFIC GRAVITY (WATER = 1)

1.34

VAPOR PRESSURE (MM Hg)

17 mm Hg @ 20 °C

pH

12 IN CONCENTRATE FORM

VAPOR DENSITY (AIR = 1)

> 1

EVAPORATION RATE (WATER = 1)

< 1

SOLUBILITY IN WATER

Complete

% VOLATILE (BY WEIGHT)

N/A

APPEARANCE AND ODOR; FLUORESCENT YELLOW-GREEN LIQUID, CHARACTERISTIC ODOR

SECTION 9 - STABILITY AND REACTIVITY

STABILITY

STABLE; XXXX

CONDITIONS TO AVOID;

Extreme temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids**HAZARDOUS DECOMPOSITION OR BY PRODUCTS;** Decomposition will not occur if handled and stored properly. In case of fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD; Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations for corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to Data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.