

SAFETY DATA SHEET

Date Issued : 10/17/2014

SDS No : LF1

Lock & Fill Glass & Multi-Surface Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lock & Fill Glass & Multi-Surface Cleaner
GENERAL USE: Glass and multiple surfaces cleaner
PRODUCT DESCRIPTION: Concentrated Glass & Multi-Surface Cleaner
PRODUCT CODE: LF1
CHEMICAL FAMILY: Solvent/detergent blend

MANUFACTURER

MISCO Products Corporation
1048 Stinson Drive
Reading, PA 19605

Emergency Phone: 610-926-4106

Customer Service: 800-548-4568

Transportation: 800-548-4568

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEM-TEL (Medical and Transportation): 800-255-3924

POISON CONTROL CENTER (Medical): 800-222-1222

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2A
Acute Toxicity (Oral), Category 4
Skin Irritation, Category 2

Physical:

Combustible Liquid, Category 4

GHS LABEL



Exclamation
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H319: Causes serious eye irritation.
H315: Causes skin irritation.
H302: Harmful if swallowed.
H333: May be harmful if inhaled.
H336: May cause drowsiness or dizziness.
H227: Combustible liquid.

PRECAUTIONARY STATEMENT(S)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing mist/vapours/spray.
P273: Avoid release to the environment.
P102: Keep out of reach of children.
P264: Wash thoroughly after handling.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Response:

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTER or doctor/physician.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330: Rinse mouth.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P370+P378: In case of fire: Use dry chemical, alcohol-resistant foam for extinction.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501: Dispose of contents/container in accordance with local, state and federal regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Blue liquid

IMMEDIATE CONCERNS: Eye & Skin irritant

POTENTIAL HEALTH EFFECTS

EYES: Irritating, and may injure eye tissue if not removed promptly.

SKIN: Contact may cause moderate to severe irritation.

SKIN ABSORPTION: Harmful if absorbed through skin.

INGESTION: Harmful if swallowed.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches)

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: No listed substance

CARCINOGENICITY: Not Established

MUTAGENICITY: No listed substance

ROUTES OF ENTRY: Eye, skin, ingestion, Inhalation.

TARGET ORGAN STATEMENT: Blood, kidney, liver, Central nervous system

CANCER STATEMENT: None

WARNING CAUTION LABELS: Irritant

PHYSICAL HAZARDS: Combustible material.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS |
|-----------------------------|---------|-----------|
| Ethylene glycol butyl ether | 45 - 50 | 111-76-2 |
| Sodium Lauryl Sulfate | 0 - 5 | 151-21-3 |
| Sodium Xylene Sulfonate | 0 - 5 | 1300-72-7 |
| Dye | < 0.2 | N/A |
| Water | 45 - 55 | 7732-18-5 |

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present,

after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

SKIN: Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe burning sensation, tearing, redness, swelling.

SKIN: Contact causes skin irritation.

INGESTION: Irritation of mouth, throat, along with stomach upset, vomiting.

INHALATION: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

ACUTE TOXICITY: Severely irritating to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

CHRONIC EFFECTS: Not Established

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: IIIA (140-200F)

GENERAL HAZARD: Combustible Liquid

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide from combustion

EXPLOSION HAZARDS: Fire exposed containers may burst due to increased pressure from heat.

FIRE FIGHTING PROCEDURES: Use an extinguishing agent suitable for surrounding fire.

FIRE FIGHTING EQUIPMENT: No special requirements.

SENSITIVE TO STATIC DISCHARGE: None

HAZARDOUS DECOMPOSITION PRODUCTS: Not Established

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid discharges into open waterways.

LAND SPILL: Avoid discharge to soil.

AIR SPILL: NA = Not Applicable

GENERAL PROCEDURES: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

RELEASE NOTES: Eliminate all ignition sources. Ventilate area well.

SPECIAL PROTECTIVE EQUIPMENT: Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Close container after use.

HANDLING: Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

STORAGE: Store in closed container away from heat, spark or open flame.

STORAGE TEMPERATURE: (40°F) Minimum to (110°F) Maximum

STORAGE PRESSURE: Store at ambient atmospheric pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | | | | |
|---|------|-----------------|-------------------|-----------|-------------------|--------------|-------------------|
| | | EXPOSURE LIMITS | | | | | |
| | | OSHA PEL | | ACGIH TLV | | Supplier OEL | |
| Chemical Name | | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ |
| Ethylene glycol butyl ether | TWA | 50 | 240 | 20 | 97 | NL | NL |
| | STEL | | | | | NL | NL |

ENGINEERING CONTROLS: Use in well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and full face-shield.

SKIN: Rubber or other chemical resistant gloves.

RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.

WORK HYGIENIC PRACTICES: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Solvent, characteristic

ODOR THRESHOLD: Not Established

COLOR: Blue

pH: 11.0 to 12.0

PERCENT VOLATILE: >90

FLASH POINT AND METHOD: 67.22°C (153°F) Tag Closed Cup (TCC)

FLAMMABLE LIMITS: 4.0 to 10.6

AUTOIGNITION TEMPERATURE: Not Established

VAPOR PRESSURE: ~ 1.2 hPa at 25°C (77°F)

VAPOR DENSITY: ~ 4 Air = 1

BOILING POINT: 212° F; 100° C

FREEZING POINT: 32° F; 0° C

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: (Water =1) <1.0

DENSITY: 8.12 at 20°C (68°F)

SPECIFIC GRAVITY: ~ 0.973 grams/ml.

VISCOSITY: Water thin.

(VOC): 48.600 % by weight

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal storage and use conditions.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

INCOMPATIBLE MATERIALS: Strong acids, oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

| Chemical Name | ORAL LD ₅₀ (rat) | DERMAL LD ₅₀ (rabbit) | INHALATION LC ₅₀ (rat) |
|-----------------------------|--------------------------------|-------------------------------------|--------------------------------------|
| Ethylene glycol butyl ether | 1300 mg/kg (rat) | > 2000 mg/kg (rabbit) | > 3.1 mg/l |
| Sodium Lauryl Sulfate | 1200 mg/kg (rat) | > 2000 to 20000 mg/kg (rabbit) | > 3900 mg/m ³ (rat) |

EYES: Causes eye irritation.

DERMAL LD₅₀: > 2000 mg/kg guinea pig

SKIN ABSORPTION: Not Established

ORAL LD₅₀: ~ 1300 mg/kg Male and Female rats.

INHALATION LC₅₀: Not Established

EYE EFFECTS: Severe eye irritant.

SKIN EFFECTS: Moderate skin irritant.

CARCINOGENICITY

| Chemical Name | NTP Status | IARC Status | OSHA Status |
|-----------------------------|------------------------|--|------------------------|
| Ethylene glycol butyl ether | No listed substance | Group 3 - Not classifiable as to its carcinogenicity to Humans | No listed substance |

IARC: 3-Group 3: Not classifiable as to its carcinogenicity to humans.

IRRITATION: Irritant

CORROSIVITY: No data available. Contact Env. Dept.

SENSITIZATION: No products were found.

NEUROTOXICITY: Central nervous system effects marked by dizziness, headache, nausea, unconsciousness.

GENETIC EFFECTS: No known significant effects or critical hazards.

REPRODUCTIVE EFFECTS: No known significant effects or critical hazards.

TARGET ORGANS: May cause damage to blood, Kidney, liver with prolonged or repeated exposure to high concentrations of vapors.

MUTAGENICITY: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Established

ECOTOXICOLOGICAL INFORMATION: Not Available

AQUATIC TOXICITY (ACUTE): No known significant effects or critical hazards.

96-HOUR LC₅₀: Not Established

96-HOUR EC₅₀: Not Established

Notes: Not Established

CHEMICAL FATE INFORMATION: This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. If discarded, this material and its containers should be treated as hazardous waste based on the characteristics of ignitibility as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal into public sewer.

FOR LARGE SPILLS: Consult with local and state authorities for large volume disposal.

PRODUCT DISPOSAL: Small quantities (less than 1 gallon) of used material may be flushed to sanitary sewer with copious amounts of water. Larger quantities must be disposed of by a licensed disposal company.

EMPTY CONTAINER: Rinse container with clear water. Offer container for recycling, or dispose of in trash.

RCRA/EPA WASTE INFORMATION: No special requirements.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Compound, Cleaning Liquid

TECHNICAL NAME: NA = Not Applicable

PRIMARY HAZARD CLASS/DIVISION: NA = Not Applicable

PLACARDS: NA = Not Applicable

LABEL: No special requirements.

OTHER SHIPPING INFORMATION: None

SPECIAL SHIPPING NOTES: None

AIR (ICAO/IATA)

SHIPPING NAME: Not Established

VESSEL (IMO/IMDG)

SHIPPING NAME: Cleaning Compound, not regulated.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Health - Acute

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: 2-butoxyethanol 111-76-2 (Category: N230 Certain Glycol Ethers)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

| Chemical Name | Wt.% | CAS |
|-----------------------------|---------|----------|
| Ethylene glycol butyl ether | 45 - 50 | 111-76-2 |

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: No listed substance

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.

STATES WITH SPECIAL REQUIREMENTS

| Chemical Name | Requirements |
|-----------------------------|---|
| Ethylene glycol butyl ether | Massachusetts Right to Know Substance Pennsylvania Right to Know Substance New Jersey Right To Know Substance |
| Sodium Lauryl Sulfate | New Jersey Right To Know Substance Pennsylvania Right to Know Substance |

CALIFORNIA PROPOSITION 65: No listed substance

CARCINOGEN: Contains an ingredient listed under IARC Group 3.

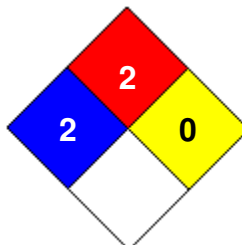
16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department

HMIS RATING

| | | |
|----------------------------|----------------------|----------|
| HEALTH | <input type="text"/> | 2 |
| FLAMMABILITY | <input type="text"/> | 2 |
| PHYSICAL HAZARD | <input type="text"/> | 0 |
| PERSONAL PROTECTION | <input type="text"/> | B |

NFPA CODES



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