

MATERIAL SAFETY DATA SHEET



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Information: 585-336-2200

Emergency Phone:
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OUTSIDE US: 1-352-323-3500

PRODUCT NAME: LIQUID SHILOH, Special Cleaner

REVISION DATE: 11/01/2001 **REVISION NUMBER:** 2
DATE PRINTED: 03/13/2002 **PREPARED BY:** Walter Friedlander

1. CHEMICAL PRODUCT

MSDS FORM NUMBER: 7144
NFPA/HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 3/3
Fire: 0/0
Reactivity: 1/1
Special/Protective Equipment: Acid/B

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

PRODUCT COMPOSITION CAS REGISTRATION NO.	APPROX. WEIGHT PERCENT	ACGIH TLV	ACGIH UNIT	OSHA PEL	OSHA UNIT
Hydrochloric Acid 7647-01-0	9 max.	5	PPM	5	PPM
Nonyl phenol ethoxylate 9016-45-9	1 - 5	NA	NA	NA	NA

3. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 188 - 212 F (C) NA
VAPOR PRESSURE: 25 mm Hg @ 20 C
VAPOR DENSITY (AIR=1): 1.26
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY: 1.040 @ 70 F
VOC Content (%): NE
EVAPORATION RATE: (BuAc = 1) : 1.26
PH: <1
APPEARANCE AND ODOR: Light green, Liquid. Mint odor.

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): None (TCC) (C): NA

METHOD: TCC

LIQUID SHILOH, Special Cleaner

EXTINGUISHING MEDIA: Water. Carbon dioxide. Dry chemical.

FIRE FIGHTING PROCEDURES: Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray.

5. STABILITY AND REACTIVITY

STABILITY DATA: STABLE

POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION: When heated to high temperatures, the following may be produced: Hydrogen chloride gas. Chlorine gas. A visible "cloud" may develop if vapors contact moist air.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with: Metals. Reaction will generate hydrogen gas. This gas is flammable and/or explosive in presence of ignition source. Do not mix with: Oxidizing materials. Cyanides. Sulfides. Do not store or mix with: Alkalines. Chlorine bleach. Other chemicals. Strong oxidents, such as nitric acid, peroxides, or hypochlorites.

CONDITIONS/HAZARDS TO AVOID: Extreme heat, direct sunlight.

6. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:

Harmful if swallowed. Severe burns to mucous membranes of mouth, throat and digestive tract.

SKIN CONTACT:

Causes severe skin irritation. Causes burns.

INHALATION:

Inhalation of mist may cause damage to nasal and respiratory passages. May cause burns. May cause delayed lung damage.

EYE CONTACT:

Causes eye burns. May cause permanent eye damage.

CHRONIC EFFECTS:

Dermatitis. Possible respiratory damage from inhalation of dust or mist. Vapor inhalation may cause dental erosion.

EFFECTS/CARCINOGENICITY:

None listed under OSHA, IARC, or NTP.

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ROUTES OF ENTRY:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

EMERGENCY AND FIRST AID MEASURES:

INGESTION: DO NOT INDUCE VOMITING. Drink promptly a large quantity of water, egg white, or gelatin solution. Get immediate medical attention. Never give anything by mouth to an unconscious person. **SKIN:** Wash with soap and water. Remove contaminated clothing and laundry before reuse. Get medical attention if irritation or burns develop.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. **EYES:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

NOTES TO PHYSICIAN: None.

7. HANDLING AND STORAGE

SPILL PROCEDURES:

SMALL SPILLS: Reclaim as much as possible.

LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Neutralize with lime, soda ash, or sodium bicarbonate. Flush remainder with water.

WASTE DISPOSAL METHODS:

Dispose in accordance with Federal, State and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

DANGER: CAUSES SEVERE BURNS. VAPORS ARE HARMFUL. Do not breathe mist or vapors. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container closed when not in use. Store in a cool, dry area. Do not store near oxidizing agents. Do not reuse container. Mix only with cool water.

OTHER PRECAUTIONS:

Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Read and follow label instructions. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

None known.

RESPIRATORY PROTECTION:

None normally required. Use NIOSH approved acid respirator with dust/mist filter if spray mist in air exceeds exposure limits.

PROTECTIVE GLOVES:

Rubber or plastic gloves recommended to minimize skin contact.

EYE PROTECTION:

Goggles. Face shield.

OTHER PERSONAL PROTECTION

EQUIPMENT:

Chemical resistant materials are required to prevent prolonged or repeated skin contact. Rubber boots. Rubber apron. Eyewash fountains and safety showers must be easily accessible.

VENTILATION:

Not normally required. General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Corrosion resistant equipment recommended.

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Health and safety information presented on this form is generally applicable at recommended dilutions, varying only in degree. This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

***** END OF MSDS *****