



# LIQUID SHILOH, Special Character

## 5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): None (TCC) (C): Not determined
METHOD:	TCC
FLAMMABLE LIMITS IN AIR	
LOWER (%):	No data
UPPER (%):	No data
SENSITIVITY TO MECHANICAL IMPACT(Y/N):	NO
SENSITIVITY TO STATIC DISCHARGE:	Sensitivity to static discharge is not expected.
SUITABLE 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.

## 6. ACCIDENTAL RELEASE MEASURES

### 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.

PERSONAL PRECAUTIONS:	Not applicable
ENVIRONMENTAL PRECAUTIONS:	Not applicable
METHODS FOR CLEANING UP:	Not applicable

## 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	VAPORS ARE HARMFUL. Do not breathe mist or vapors. DANGER: CAUSES SEVERE BURNS. 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.
OTHER PRECAUTIONS:	Do not store near oxidizing agents. Do not reuse container. Mix only with cool water. 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.
SPECIFIC USE(S):	Not applicable.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Light green, Liquid. Mint odor.	
BOILING POINT (F):	188 - 212 F	(C) Not determined
VAPOR PRESSURE:	25 mm Hg @ 20 C	
VAPOR DENSITY (AIR=1):	1.26	
SOLUBILITY IN WATER:	Not determined	

# LIQUID SHILOH, Special Character

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**SPECIFIC GRAVITY:** 1.040 @ 70 F  
**VOC Content (%):** NE  
**EVAPORATION RATE:** (BuAc = 1) : 1.26  
**PH:** < 1

## 10. STABILITY AND REACTIVITY

**STABILITY DATA:** STABLE  
**POLYMERIZATION:** Will Not Occur.  
**HAZARDOUS DECOMPOSITION:** Hydrogen chloride gas. Chlorine gas. A visible "cloud" may develop if vapors contact moist air. When heated to high temperatures, the following may be produced:  
**INCOMPATIBILITY (MATERIALS TO AVOID):** 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: Avoid contact with: Alkalines. Chlorine bleach. Other chemicals. Strong oxidents, such as nitric acid, or hypochlorites.  
**CONDITIONS/HAZARDS TO AVOID:** Extreme heat, direct sunlight.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Not Established  
**EFFECTS OF CHRONIC EXPOSURE:** Not established.  
**OTHER TOXIC EFFECTS:** Not established.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data at this time  
**CHEMICAL FATE INFORMATION:** No data at this time.  
**MOBILITY:** Not applicable.  
**PERSISTENCE/DEGRADABILITY:** Not applicable  
**BIOACCUMULATIVE POTENTIAL:** Not applicable  
**OTHER ADVERSE EFFECTS:** Not applicable

## 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State and Local regulations.

## 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

## 15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Hydrochloric Acid 7647-01-0	9 max.	Listed	Listed	Listed	Not Listed
Nonyl phenol ethoxylate 9016-45-9	1 - 5	Listed	Not Listed	Listed	Not Listed

## LIQUID SHILOH, Special Character

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Hydrochloric Acid 7647-01-0	9 max.	2270 kg 5000 lb	5000 lb RQ = 500 lb TPQ gas only	= 1.0 % de minimis concentration acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size
Nonyl phenol ethoxylate 9016-45-9	1 - 5	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
Hydrochloric Acid 7647-01-0	9 max.	Listed
Nonyl phenol ethoxylate 9016-45-9	1 - 5	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
Hydrochloric Acid 7647-01-0	9 max.	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	NJRTK:
Hydrochloric Acid 7647-01-0	9 max.	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
Hydrochloric Acid 7647-01-0	9 max.	Listed

### 16. OTHER INFORMATION

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 \*\*\*