



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/28/2008  
DATE PRINTED: 04/02/2013

REVISION NUMBER: 5  
PREPARED BY: EH&S DEPARTMENT

### 1. CHEMICAL PRODUCT

PRODUCT NAME: **FLORASAN CONCENTRATE**

PRODUCT CODE: 118319

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2  
Reactivity: 0/0

Fire: 0/0  
Special/Protective Equipment: None/B

Emergency Phone:  
INFOTRAC: 1-800-535-5053  
OUTSIDE US: 1-352-323-3500

### 2. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

**INGESTION:** Irritation of the mouth, throat, and stomach. Headache, dizziness, respiratory irritation, nausea, possible convulsions.  
**SKIN CONTACT:** Possible dryness; irritation with prolonged contact. May cause skin burns.  
**INHALATION:** None in normal use. Concentrated vapors may cause slight temporary respiratory irritation.  
**EYE CONTACT:** Causes severe eye burns which may not be immediately painful or visible.  
**CHRONIC EFFECTS:** None expected in normal use. Repeated exposure may result in sensitization dermatitis.  
**EFFECTS/CARCINOGENICITY:** None listed under OSHA, IARC, or NTP.  
**ROUTES OF ENTRY:** Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
ETHANOL 64-17-5	1 - 2	1000 ppm	1000 ppm 1900 mg/m <sup>3</sup>
Quaternary ammonium compounds 68424-85-1	2 - 20	Not applicable	Not applicable

### 4. FIRST AID MEASURES

**INGESTION:** DO NOT INDUCE VOMITING. Drink one or two glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.  
**SKIN:** Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation persists.  
**INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If inhaled, move victim to fresh air and seek medical attention.  
**EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.  
**NOTES TO PHYSICIAN:** None.

### 5. FIRE AND EXPLOSION HAZARD DATA

# FLORASAN CONCENTRATE

## 5. FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** (F): None to boiling (C): None to boiling

**METHOD:** TCC

### FLAMMABLE LIMITS IN AIR

**LOWER (%):** NA  
**UPPER (%):** NA

**SENSITIVITY TO MECHANICAL IMPACT(Y/N):** NO

**SENSITIVITY TO STATIC DISCHARGE:** Sensitivity to static discharge is not expected.

**SUITABLE EXTINGUISHING MEDIA:** As for surrounding fire.

**FIRE FIGHTING PROCEDURES:** None.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL PROCEDURES:

**SMALL SPILLS:** Flush with water.  
**LARGE SPILLS:** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. 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

Store in a cool, dry area.

**IN HANDLING AND STORAGE:** Keep container closed. Avoid contact with eyes, skin and clothing.

**OTHER PRECAUTIONS:** 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 required.

**PROTECTIVE GLOVES:** Rubber or plastic gloves recommended to minimize skin contact.

**EYE PROTECTION:** Safety Glasses.

**OTHER PERSONAL PROTECTION EQUIPMENT:** None required. Eyewash fountains and safety showers must be easily accessible.

**VENTILATION:** None required. Use local exhaust ventilation as needed if spill occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Clear. Light yellow liquid. Pleasant fragrance as labeled.

**BOILING POINT (F):** 212 (C) Not determined

**VAPOR PRESSURE:** NE

**VAPOR DENSITY (AIR=1):** NE

**SOLUBILITY IN WATER:** Not determined

**SPECIFIC GRAVITY:** 1.00 - 1.02

**VOC Content (%):** 11 - 13 (Per EPA Method 24)

**EVAPORATION RATE:** NE

**PH:** 6.5 - 7.0

# FLORASAN CONCENTRATE

## 10. STABILITY AND REACTIVITY

**STABILITY DATA:** STABLE  
**POLYMERIZATION:** Will Not Occur.  
**HAZARDOUS DECOMPOSITION:** Acrylic monomers  
**INCOMPATIBILITY (MATERIALS TO AVOID):** None known.  
**CONDITIONS/HAZARDS TO AVOID:** None known.

## 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:
ETHANOL 64-17-5	1 - 2	Listed	Listed	Listed	Developmental
Quaternary ammonium compounds 68424-85-1	2 - 20	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
ETHANOL 64-17-5	1 - 2	Not Listed	Not Listed	Not Listed
Quaternary ammonium compounds 68424-85-1	2 - 20	Not Listed	Not Listed	Not 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:
ETHANOL 64-17-5	1 - 2	Listed

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

## FLORASAN CONCENTRATE

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PRODUCT COMPOSITION CAS#	%	NJRTK:
ETHANOL 64-17-5	1 - 2	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:
ETHANOL 64-17-5	1 - 2	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 \*\*\*