



## MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/28/2008

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5

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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

Fire: 0/0

Reactivity: 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

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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	None required. Eyewash fountains and safety showers must be easily accessible.
EQUIPMENT:	
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

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.

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