



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Chloraprep 2.0%

**Formula:** Mixture

**MSDS Date of Preparation:** January 29, 2007

\*ENTURIA, INC.

11400 Tomahawk Creek Pkwy

Leawood, KS 66211

PHONE: (800) 523-0502 FAX: (913) 451-8509

**EMERGENCY CONTACT:** CHEMTREC 1-800-424-9300 Commercial # 1 (703) 741-6009

- This number to be used only for spills, leaks, fire, exposure or accidents. Please direct all other inquiries to Enturia Customer Service at (800) 523-0502.

### 2. HAZARDS IDENTIFICATION

This product consists of small glass ampule containing a clear, colorless solution of 70% isopropanol and 2% chlorhexidine gluconate inside an applicator.

#### EMERGENCY OVERVIEW

##### WARNING!

Flammable Liquid and Vapor. Causes severe eye irritation. May cause skin irritation. Inhalation of vapors may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness. Harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Isopropanol (Isopropyl Alcohol)	67-63-0	70%
Chlorhexidine Gluconate	18472-51-0	2%

### 4. FIRST AID MEASURES

**Skin:** Wash material off the skin with copious amounts of water. If redness or a burning sensation develops, seek medical attention and discontinue use.

**Eyes:** Flush with copious amounts of water. After initial flushing remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel immediately.

**Ingestion:** Give individual one to two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person)

(Chloraprep 2%) 1 of 5 Pages

# enturia™

**Inhalation:** If symptoms of exposure develop, move to fresh air. Seek medical attention if symptoms persist.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water fog, alcohol-resistant foam, carbon dioxide or dry chemical. Water spray can be used to cool exposed containers and structures, dilute spills and disperse flammable vapors.

**Special Fire Fighting Procedures:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

**Unusual Fire & Explosion Hazards:** Ampoules may explode if exposed to extreme heat or flame. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back.

## 6. ACCIDENTAL RELEASE MEASURES

For small spills, wipe or mop up and rinse to sewer serviced by a wastewater treatment facility. For large spills, eliminate sources of ignition and ventilate spill area. Wear skin, eye and respiratory protection during cleanup (See Section 8). Soak up liquid with inert absorbent and collect into a suitable waste container. Wash residue from spill area with water and flush to sewer serviced by a wastewater treatment facility if permitted.

## 7. HANDLING AND STORAGE

Avoid prolonged exposure (ingestion, inhalation, or skin). Avoid breathing vapors. Use in well ventilated areas. Keep product away from heat, sparks and flames.

Store in a cool, dry, well-ventilated area away from incompatible chemicals and all sources of ignition.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines:

Isopropanol (Isopropyl Alcohol)	400 ppm PEL-TWA 200 ppm TLV-TWA 400 ppm TWA-STEL
Chlorhexidine Gluconate	None Established

# enturia™

**Eye Protection:** Avoid eye contact. Safety glasses or goggles recommended if eye contact is possible.  
**Gloves:** Latex rubber for limited contact. Butyl rubber or nitrile recommended for prolonged contact.  
**Respiratory Protection:** If the exposure limits are exceeded a NIOSH approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.  
**Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	N/A	<b>Melting Point:</b>	Unknown
<b>Vapor Pressure:</b>	N/A	<b>Specific Gravity:</b>	0.880
<b>Vapor Density:</b>	N/A	<b>% Volatile by volume:</b>	100
<b>Water Solubility:</b>	Complete	<b>Evaporation Rate:</b>	Unknown
<b>pH</b>	7.0 – 7.5	<b>Flash point:</b>	67° F TCC
<b>Flammable Limits:</b>	LEL: 2.0%(isopropanol)	<b>UEL:</b>	12.7% (isopropanol)

**Appearance & Odor:** Clear, colorless liquid in ampoule. Product is a colorless liquid with an alcohol odor as applied.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility:** Oxidizing materials

**Hazardous polymerization:** Will not occur.

**Hazardous decomposition products:** Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, chlorine compounds.

**Conditions to avoid:** Extreme heat, sparks or flame.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**Ingestion:** Ingestion may cause mucous membrane and gastrointestinal irritation, abdominal pain, nausea, vomiting, dizziness and drowsiness.

**Inhalation:** Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness and drowsiness.

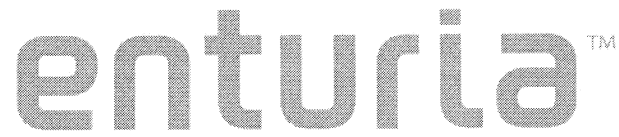
**Eye:** Contact may cause severe irritation with redness, tearing and pain with possible eye damage.

**Skin:** May cause irritation, drying, defatting of the skin. Prolonged contact may cause dermatitis.

**Chronic:** None known.

**Carcinogenicity:** None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

**Medical Conditions Aggravated by Exposure:** Employees with pre-existing skin, kidney and respiratory diseases may be at increased risk from exposure.



**Acute Toxicity Values:**

Isopropanol: Oral Rat LD50 5,045 mg/kg; Inhalation Rat LC50 16,000 ppm/8 hour; Skin Rabbit LD50 12,800 mg/kg

Chlorhexidine Gluconate: Oral Rat LD50 2,000 mg/kg

**12. ECOLOGICAL INFORMATION**

Isopropanol: The LC50/96-hour values for fish are over 100 mg/l.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with local, state and federal environmental regulations.

**14. TRANSPORT INFORMATION**

**DOT Information**

**Proper Shipping Name:** Isopropanol Solution

**Hazard Class:** 3, PG II

**UN Number:** UN1219

**Exemption for US Ground Transport:** Consumer Commodity, ORM-D

**Exemption for US Air Transport:** Consumer Commodity, ORM-D-AIR

**Small Quantity Exception:** 49CFR173.4

**IMO Information**

**Proper Shipping Name:** Isopropanol Solution

**Hazard Class:** 3, PG II

**UN Number:** UN1219

**Limited Quantity:** 1 L/inner receptacle. Limit gross weight - 30 kg/package

**IATA Information**

**Proper Shipping Name:** Isopropanol Solution

**Hazard Class:** 3, PG II

**UN Number:** UN1219

**Packing Instruction:** 305

**Limited Quantity Packing Instruction:** Y305

**Alternate Shipping Description:** Consumer Commodity, 9, ID8000

**Excepted Small Quantities of Dangerous Goods:** Class 3, PG II inner limit 30 mL, Outer Package Limit 500 mL



## 15. REGULATORY INFORMATION

**CERCLA:** This product is not subject to CERCLA reporting requirements, however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute Health, Fire Hazard.

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

## 16. OTHER INFORMATION

**HMIS Rating:** Health = 2                      Fire = 3                      Reactivity = 0

ACGIH:                      American Conference of Governmental Industrial Hygienists  
IARC:                        International Agency for Research on Cancer  
OSHA:                       Occupational Safety and Health Administration  
NTP:                         National Toxicology Program  
PEL:                         Permissible exposure Level (OSHA)  
TLV:                         Threshold Limit Value (ACGIH)  
TWA:                         Time Weighted Average over 8 hours  
TCC:                         Tagged Closed Cup

<i>REVISION SUMMARY</i>	
CAF NUMBER	2007-01-68
REVISION	I
DATE	01/29/07
SUMMARY OF CHANGE	Change Co. name.
<i>REVISION SUMMARY</i>	
CAF NUMBER	2006-05-17
REVISION	H
DATE	05/15/06
SUMMARY OF CHANGE	Change Format to ANSI 16 pt.
<i>REVISION SUMMARY</i>	
CAF NUMBER	2005-10-63
REVISION	G
DATE	11/07/05
SUMMARY OF CHANGE	Add NFPA 704 – Health/Flammability/Reactivity.
<i>REVISION SUMMARY</i>	
CAF NUMBER	2005-01-44
REVISION	F
DATE	01/31/05
SUMMARY OF CHANGE	Spell out IPA as Isopropyl alcohol.

To view remaining history – See Rev. E.