

# Safety Data Sheet

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

: Antimicrobial

#### 1.1. Product identifier

Product name

#### : ChloraPrep<sup>®</sup> Solutions

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

#### 1.3. Details of the supplier of the safety data sheet

CareFusion 75 N. Fairway Drive Vernon Hills, IL 60061 T 800-523-0502 - F 855-329-6985

#### 1.4. Emergency telephone number

Emergency number

: Chemtrec 1 800 424 9300

GHS02

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US classification**

Flam. Liq. 2 H225 Eye Irrit. 2A H319 STOT SE 3 H336 STOT SE 3 H335

### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



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# 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

# ChloraPrep<sup>®</sup>Clear

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	70	Flam. Liq. 2, H225
Chlorhexidine digluconate	(CAS No) 18472-51-0	2	Acute Tox. 4 (Oral), H302

# ChloraPrep<sup>®</sup> Teal Green

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	70	Flam. Liq. 2, H225
Chlorhexidine digluconate	(CAS No) 18472-51-0	2	Acute Tox. 4 (Oral), H302
C.I. Food Green 3	(CAS No) 2353-45-9	0 - 0.1	Muta. 2, H341

# ChloraPrep<sup>®</sup> Hi-Lite Orange

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	70	Flam. Liq. 2, H225
Chlorhexidine digluconate	(CAS No) 18472-51-0	2	Acute Tox. 4 (Oral), H302
FD and C Yellow No. 6	(CAS No) 2783-94-0	0 - 0.1	Not classified

# SECTION 4: First aid measures

4.1. Description of first aid measures				
First-aid measures after inhalation	: If symptoms of exposure develop, move to fresh air. Seek medical attention if symptoms persist.			
First-aid measures after skin contact	: Wash material off the skin with copious amounts of water. If redness or a burning sensation develops, seek medical attention and discontinue use.			
First-aid measures after eye contact	: Flush with copious amounts of water. After initial flushing remove any contact lenses and continue flushing for at least 15minutes. Have eyes examined and treated by medical personnel immediately.			
First-aid measures after 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).			
4.2. Most important symptoms and effec	4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/injuries after inhalation	: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness and drowsiness.			
Symptoms/injuries after skin contact	: May cause irritation, drying, defatting of the skin. Prolonged contact may cause dermatitis.			
Symptoms/injuries after eye contact	: Contact may cause severe irritation with redness, tearing and pain with possible eye damage.			
Symptoms/injuries after ingestion	: Ingestion may cause mucous membrane and gastrointestinal irritation, abdominal pain, nausea, vomiting, dizziness and drowsiness.			

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

<b>SECTION 5: Firefighting meas</b>	ures
5.1. Extinguishing media	
Suitable 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.
Unsuitable extinguishing media	: None.
5.2. Special hazards arising from	n the substance or mixture
Fire hazard	Highly flammable liquid and vapor. 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.
Explosion hazard	: None known.
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	Advice for firefighters a during firefighting	: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.
SECTIC	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
General m	neasures	: No special measures required.
	For non-emergency personnel onal information available	
	For emergency responders onal information available	
	Environmental precautions ease to the environment.	
6.3.	Methods and material for containmer	nt and cleaning up
For contai	inment	: Stop the flow of material, if this is without risk.
Methods f	for cleaning up	: Wear skin, eye and respiratory protection during cleanup.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. 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.
6.4.	Reference to other sections	
No additic	onal information available	
SECTIC	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaution	ns for safe handling	: Avoid prolonged exposure (ingestion, inhalation, or skin contact). Avoid breathing vapors. Use in

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

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

well-ventilated areas. Keep product away from heat, sparks and flames.

#### Specific end use(s) 7.3.

No additional information available

#### 8.1. **Control parameters**

Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

#### 8.2. Exposure controls

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Appropriate engineering controls	: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.
Hand protection	: Latex rubber for limited contact. Butyl rubber or nitrile recommended for prolonged contact.
Eye protection	: Safety glasses or goggles recommended if eye contact is possible.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: If the exposure limits are exceeded a NIOSH/EN approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basi	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Clear in product; when activated, clear orange, teal	
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Color		: Clear, orange, or teal	
Odor		: Odorless	
Odor thr	eshold	: No data available	
рН		: 7 - 7.5	
Relative	evaporation rate (butylacetate=1)	: No data available	
Melting p	point	: No data available	
Freezing	y point	: No data available	
Boiling p	point	: No data available	
Flash po	pint	: 67 °F	
Self ignit	tion temperature	: 2 - 12.7	
Decomp	osition temperature	: No data available	
Flamma	bility (solid, gas)	: No data available	
Vapor pi	ressure	: No data available	
Relative	vapor density at 20 °C	: No data available	
Specific	gravity	: 0.88	
Solubility	ý	: Water: Complete	
Log Pow	1	: No data available	
Log Kow	1	: No data available	
Viscosity	y, kinematic	: No data available	
Viscosity	y, dynamic	: No data available	
Explosiv	e properties	: No data available	
Oxidizin	g properties	: No data available	
Explosiv	e limits	: No data available	
9.2.	Other information		
VOC cor	ntent	: 100 %	

## SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

Will not occur.

#### 10.4. Conditions to avoid

Extreme heat, sparks or flame.

#### 10.5. Incompatible materials

Oxidizing materials

#### 10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, chlorine compounds.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	
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: Not classified

Isopropyl alcohol (67-63-0)			
LD50 oral rat	4396 mg/kg		
LD50 dermal rabbit 12800 mg/kg			
LC50 inhalation rat (ppm)	16000 ppm (Exposure time: 8 h)	16000 ppm (Exposure time: 8 h)	
Chlorhexidine digluconate (18472-51-0)			
ATE (oral)	500.000 mg/kg		
Skin corrosion/irritation	: Not classified		
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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Isopropyl alcohol (67-63-0)	
IARC group	3 - Not classifiable
C.I. Food Green 3 (2353-45-9)	
IARC group	3 - Not classifiable
FD and C Yellow No. 6 (2783-94-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Isopropyl alcohol (67-63-0)		
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)	
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)	

### 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

Isopropyl alcohol (67-63-0)		
Log Pow	0.05 (at 25 °C)	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

**13.1. Waste treatment methods** Waste disposal recommendations

: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1219 Isopropanol Solution, 3, II
UN-No.(DOT)	: 1219
DOT NA no.	: UN1219
DOT Proper Shipping Name	: Isopropanol Solution
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT)	:	3 - Flammable liquid
Packing group (DOT)	:	II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	:	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	4b;150
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
DOT Packaging Bulk (49 CFR 173.xxx)	:	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

# SECTION 15: Regulatory information

### 15.1. US Federal regulations

Isopropyl alcohol (67-63-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)		
EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TS		
SARA Section 313 - Emission Reporting	1.0 % (only if manufactured by the strong acid process, no supplier notification)	
C.I. Food Green 3 (2353-45-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Chlorhexidine digluconate (18472-51-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
FD and C Yellow No. 6 (2783-94-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

#### 15.2. US State regulations

Iso	propyl alcohol (67-63-0)
U.S Massachusetts - Right To Know List	
	S Minnesota - Hazardous Substance List S New Jersey - Right to Know Hazardous Substance List
	S Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

Full text of H-phrases:

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	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
	Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
	Flam. Liq. 2	Flammable liquids, Category 2	
	Muta. 2	Germ cell mutagenicity, Category 2	
	STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	

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STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product