



Safety Data Sheet

*** Section 1 - Product and Company Identification ***

Material Name: ChloraPrep with Orange Tint

Product Use: Preoperative Skin Preparation

Manufacturer Information

CareFusion
11400 Tomahawk Creek Parkway
Leawood, KS 66211
USA

Phone: 800-523-0502
Fax: 913-451-8509
Emergency # 800-424-9300 CHEMTREC

*** Section 2 - Hazards Identification ***

GHS Classification:

Flammable Liquid - Category 2
Eye Damage/Irritation - Category 2
Specific Target Organ Toxicity (Single Exposure) - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces - No smoking.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.
Wash thoroughly after handling.
Avoid breathing mist/vapours/spray.
Use in a well-ventilated area.



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Response

In case of fire: Use water fog, alcohol-resistant foam, carbon dioxide or dry chemical for extinction.

If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor if you feel unwell.

Storage

Store in a well-ventilated place. Keep cool.

Keep container tightly closed. Store locked up.

Disposal

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

*** Section 3 - Composition / Information on Ingredients ***

| CAS # | Component | Percent |
|------------|--|-----------|
| 67-63-0 | Isopropyl alcohol | 70 |
| 18472-51-0 | Chlorhexidine digluconate | 2 |
| 2783-94-0 | FD&C yellow No. 6 (Sunset Yellow E110) | 0.35-1.25 |

*** Section 4 - First Aid Measures ***

First Aid: 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.

First Aid: Skin

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: 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).

First Aid: Inhalation

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

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Highly flammable liquid and vapour. Ampoules may explode if exposed to extreme heat or flame. Vapours are heavier than air and will travel along surfaces to remote ignition sources and flash back.

Hazardous Combustion Products

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



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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 vapours.

Unsuitable Extinguishing Media

None.

Fire Fighting Equipment/Instructions

Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Stop the flow of material, if this is without risk.

Materials and Methods for Clean-Up

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.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Wear skin, eye and respiratory protection during cleanup.

Environmental Precautions

None.

Prevention of Secondary Hazards

None.

*** Section 7 - Handling and Storage ***

Handling Procedures

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

Storage Procedures

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

Incompatibilities

Oxidizing materials.



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*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Isopropyl alcohol (200-661-7)

| | |
|-----------|---|
| ACGIH: | 400 ppm STEL 200 ppm TWA |
| Austria: | 800 ppm STEL [KZW] (4 X 15 min); 2000 mg/m ³ STEL [KZW] (4 X 15 min); 800 ppm STEL [KZW] (STEL for large casting valid till 12/31/2013, 4 X 30 min); 2000 mg/m ³ STEL [KZW] (STEL for large casting valid till 12/31/2013, 4 X 30 min) 200 ppm TWA [TMW]; 500 mg/m ³ TWA [TMW] (short time value for large casting) |
| Belgium: | 400 ppm STEL; 1000 mg/m ³ STEL 200 ppm TWA; 500 mg/m ³ TWA |
| Denmark: | 200 ppm TWA; 490 mg/m ³ TWA |
| Finland: | 250 ppm STEL; 620 mg/m ³ STEL 200 ppm TWA; 500 mg/m ³ TWA |
| France: | 400 ppm STEL [VLCT]; 980 mg/m ³ STEL [VLCT] |
| Germany: | 200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 500 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2) 50 mg/L Medium: whole blood Time: end of shift Parameter: Acetone; 50 mg/L Medium: urine Time: end of shift Parameter: Acetone 200 ppm TWA MAK; 500 mg/m ³ TWA MAK 400 ppm Peak; 1000 mg/m ³ Peak |
| Greece: | 500 ppm STEL; 1225 mg/m ³ STEL 400 ppm TWA; 980 mg/m ³ TWA |
| Ireland: | 400 ppm STEL 200 ppm TWA Potential for cutaneous absorption |
| Portugal: | 200 ppm TWA [VLE-MP] |
| Spain: | 400 ppm STEL [VLA-EC]; 1000 mg/m ³ STEL [VLA-EC] 200 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound); 500 mg/m ³ TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary o biocide compound) |
| Sweden: | 150 ppm LLV; 350 mg/m ³ LLV 250 ppm STV; 600 mg/m ³ STV |

Engineering Measures

Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

Personal Protective Equipment: Respiratory

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.

Personal Protective Equipment: Hands

Latex rubber for limited contact. Butyl rubber or nitrile recommended for prolonged contact.



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Personal Protective Equipment: Eyes

Safety glasses or goggles recommended if eye contact is possible.

Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

*** Section 9 - Physical & Chemical Properties ***

| | | | |
|--|---|--|----------------|
| Appearance: | Clear, colorless with orange tinted foam. | Odor: | Alcohol |
| Physical State: | Liquid | pH: | 7.0-7.5 |
| Vapor Pressure: | Not Determined | Vapor Density: | Not Determined |
| Boiling Point: | Not Determined | Melting Point: | Not Determined |
| Solubility (H2O): | Complete | Specific Gravity: | 0.880 |
| Evaporation Rate: | Not Determined | VOC: | Not Determined |
| Percent Volatile: | 100 | Octanol/H2O Coeff.: | Not Determined |
| Flash Point: | 67°F | Flash Point Method: | TCC |
| Upper Flammability Limit (UFL): | 12.7% | Lower Flammability Limit (LFL): | 2.0% |
| Burning Rate: | Not Determined | Auto Ignition: | Not Determined |

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Extreme heat, sparks or flame.

Incompatible Products

Oxidizing materials.

Hazardous Decomposition Products

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

*** Section 11 - Toxicological Information ***

Acute Toxicity

Component Analysis - LD50/LC50

Isopropyl alcohol (67-63-0)

Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg

Chlorhexidine digluconate (18472-51-0)

Oral LD50 Rat 2 g/kg

FD&C yellow No. 6 (Sunset Yellow E110) (2783-94-0)



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Oral LD50 Rat >10 g/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

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

Potential Health Effects: Eye Critical Damage/ Stimulativeness

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

Potential Health Effects: Ingestion

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

Potential Health Effects: Inhalation

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

Respiratory Organs Sensitization/Skin Sensitization

This product is not a respiratory or skin sensitization hazard.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

Isopropyl alcohol (67-63-0)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

FD&C yellow No. 6 (Sunset Yellow E110) (2783-94-0)

IARC: Supplement 7 [1987]; Monograph 8 [1975] (Group 3 (not classifiable))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

May cause respiratory irritation and drowsiness or dizziness.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any repeated exposure specific target organ effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.



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B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Isopropyl alcohol (67-63-0)

Test & Species

Conditions

| | |
|------------------------------------|--------------------------|
| 96 Hr LC50 Pimephales promelas | 9640 mg/L [flow-through] |
| 96 Hr LC50 Pimephales promelas | 11130 mg/L [static] |
| 96 Hr LC50 Lepomis macrochirus | >1400000 µg/L |
| 96 Hr EC50 Desmodesmus subspicatus | >1000 mg/L |
| 72 Hr EC50 Desmodesmus subspicatus | >1000 mg/L |
| 48 Hr EC50 Daphnia magna | 13299 mg/L |

Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

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

*** Section 14 - Transportation Information ***

IATA Information

Shipping Name: Isopropanol Solution

Additional Info.: 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

IMO Information

Shipping Name: Isopropanol Solution

UN #: 1219 Hazard Class: 3 Packing Group: II

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

*** Section 15 - Regulatory Information ***

Regulatory Information

EU MARKING AND LABELLING:



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Symbol(s):

F

Xi

Risk Phrases:

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Substance Analysis - Inventory

| Component/CAS | EC # | EEC | CAN | TSCA |
|---|-----------|--------|-----|------|
| Isopropyl alcohol 67-63-0 | 200-661-7 | EINECS | DSL | Yes |
| Chlorhexidine digluconate 18472-51-0 | 242-354-0 | EINECS | DSL | Yes |
| FD&C yellow No. 6 (Sunset Yellow E110) 2783-94-0 | 220-491-7 | EINECS | DSL | Yes |

*** * * Section 16 - Other Information * * *****Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

Available on request.

End of Sheet