

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

Material Name: ChloraPrep with Orange Tint

Product Use: Preoperative Skin Preparation

Manufacturer Information

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* * * 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





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.



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 15minutes. 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.



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.

Rev. B (1AUG2013)

Storage Procedures

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

Incompatibilities

Oxidizing materials.



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/m3 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/m3 STEL [KZW]

(STEL for large casting valid till 12/31/2013, 4 X 30 min)

200 ppm TWA [TMW]; 500 mg/m3 TWA [TMW] (short time value for large casting)

400 ppm STEL; 1000 mg/m3 STEL Belgium:

200 ppm TWA; 500 mg/m3 TWA

Denmark: 200 ppm TWA; 490 mg/m3 TWA Finland: 250 ppm STEL; 620 mg/m3 STEL

200 ppm TWA; 500 mg/m3 TWA

France: 400 ppm STEL [VLCT]; 980 mg/m3 STEL [VLCT]

200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW Germany:

> and BGW values are observed, exposure factor 2); 500 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure

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/m3 TWA MAK

400 ppm Peak; 1000 mg/m3 Peak 500 ppm STEL; 1225 mg/m3 STEL

400 ppm TWA; 980 mg/m3 TWA

Ireland: 400 ppm STEL

Greece:

200 ppm TWA

Potential for cutaneous absorption

Portugal: 200 ppm TWA [VLE-MP]

Spain: 400 ppm STEL [VLA-EC]; 1000 mg/m3 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/m3 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/m3 LLV

250 ppm STV; 600 mg/m3 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.



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 Odor: Alcohol

tinted foam.

Physical State: Liquid pH: 7.0-7.5

Vapor Pressure:Not DeterminedVapor Density:Not DeterminedBoiling Point:Not DeterminedMelting 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 12.7% Lower Flammability Limit 2.0%

(UFL): (LFL):

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)

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 * * *

Rev. B (1AUG2013)

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effects.



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 promelas11130 mg/L [static]96 Hr LC50 Lepomis macrochirus>1400000 μg/L96 Hr EC50 Desmodesmus>1000 mg/L

subspicatus

72 Hr EC50 Desmodesmus >1000 mg/L

subspicatus

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:



Symbol(s):

F

Χi

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	200-661-7	EINECS	DSL	Yes
67-63-0				
Chlorhexidine digluconate	242-354-0	EINECS	DSL	Yes
18472-51-0				
FD&C yellow No. 6 (Sunset Yellow E110)	220-491-7	EINECS	DSL	Yes
2783-94-0				

* * * 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