

LERNAPHARM INC.  
2323 Halpern, St-Laurent (Montreal)  
Québec, Canada H4S 1S3  
Telephone: 514-331-4634

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Material Safety Data Sheet  
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Prepared by: Lernapharm inc.  
Telephone: (514) 331-4634  
Fax: (514) 331-5488  
Web Site: <http://www.lernapharm.ca>

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1 Chemical Product and Company Identification  
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Trade name: Loris IV 2.0% CHG, 70% Isopropyl Alcohol  
Intended Use of Product: Sanitizer

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2 Composition/Information on ingredients  
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Ingredient Name	CAS Number	Percentage
ISOPROPYL ALCOHOL	67-63-0	60-65
WATER	7732-18-5	30 - 35
CHLORHEXIDINE DIGLUCONATE	18472-51-0	2.0

Ingredient Statements:

For some formats of this product, their composition would include either a sponge, Swabstick or other applicator as part of their delivery systems.

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

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3 Hazards Identification  
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Critical Hazards:

No data available.

See Sections 7 and 11 for further information.

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4 First Aid Measures  
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Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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5 Fire Fighting Measures  
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Flash point: 13 °C

Lower Explosive Limit (%): 2 % by volume

Upper Explosive Limit (%): 12 % by volume

Autoignition temperature: Not Available

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

Flammable liquid and vapour.

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

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6 Accidental Release Measures  
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Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental Procedures

No data available.

Methods for cleaning up

No data available.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

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7 Handling and Storage  
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Storage Requirements:

No data available.

Incompatible Materials:

Store away from heat; Sparks and/or Flames; Store out of direct sunlight. Store away from acids; Store away from oxidizing agents. Avoid alkali metals (eg. sodium);

Ventilation:

No data available.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Use Instructions:

Keep container tightly closed. For industrial or professional use only. Avoid contact with oxidizing agents.

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8 Exposure Controls/Personal Protection  
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Personal Protection  
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Eye Protection:

Avoid eye contact with vapours, mists, or spray.

Hand Protection:

Not applicable.

Skin Protection:

No data available.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Ingestion (Prevention):

Not applicable.

Recommended Ventilation:

Use in a well-ventilated area.

Ingredient Exposure Data  
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ISOPROPYL ALCOHOL (67-63-0)

LD50 (rat, oral) 5045 mg/kg  
LD50 (dermal, rabbit) 12800 mg/kg  
LC50 (rat, inhalation/4 hours) 17000 ppm

Exposure Limits

ACGIH: STEL 400 ppm (Table A4)  
ACGIH: TWA 200 ppm (Table A4)

WATER (7732-18-5)

LD50 (rat, oral) > 90 ml/kg  
LC50 (rat, inhalation/4 hours) No data available.  
Exposure Limits No data available.

CHLORHEXIDINE DIGLUCONATE (18472-51-0)

LD50 (rat, oral) No data available.  
LC50 (rat, inhalation/4 hours) No data available.  
Exposure Limits No data available.

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9 Physical and Chemical Properties  
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Physical form,Color,Odour:	Liquid; light red; alcohol odour;
Odour Threshold:	No data available.
pH:	5 - 8 at 25 C
Boiling point/boiling range:	Not Available
Melting point/melting range:	Not Available
Vapour pressure:	Not Available
Water Solubility:	100 %
Specific gravity:	0.872 - 0.887 Water=1
Vapour density:	Not Available
Volatile organic compounds:	Not Available
Evaporation rate:	Not Available
Viscosity:	Not Available
Percent Volatile:	Not Available

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10 Stability and Reactivity  
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Conditions to Avoid:  
Store away from heat; Sparks and/or Flames; Store out of direct sunlight.  
Materials to Avoid:  
Strong acids; Strong oxidizing agents; Avoid alkali metals (eg. sodium);  
Hazardous Decomposition:  
Carbon monoxide - During Combustion;  
Carbon dioxide - During Combustion;  
Stability and Reactivity:  
Stable. Hazardous polymerization will not occur.

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11 Toxicological Information  
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Effects from Eye Contact:  
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.  
Effects from Skin Contact:  
Prolonged or repeated exposure may cause: Dermal Effects:  
Signs/symptoms may include localized redness, itching, drying and cracking of skin.  
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.  
Effects from Inhalation:  
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May be absorbed following inhalation and cause target organ effects.

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Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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12 Ecological Information  
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Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

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13 Disposal Considerations  
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Product as Sold:

Incinerate in a permitted hazardous waste incinerator. Combustion products will include HCl. Facility must be capable of handling halogenated materials. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

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14 Transport Information  
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Transportation of Dangerous Goods  
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TDG Classification:  
Lernapharm does not guarantee the accuracy of this classification information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. Lernapharm's transportation classifications are based on product formulation, packaging and Lernapharm's understanding of applicable current regulations.

The original Lernapharm package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

International Dangerous Goods Classification  
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IMO Class

UN Number: UN 3175  
Proper Shipping Name: SOLIDS  
CONTAINING FLAMMABLE LIQUIDS;  
Class: 4.1

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15 Regulatory Information  
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WHMIS Classification: Exempt (Registered under Food and Drug Act).

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

- AICS - Australian Inventory of Chemical Substances
- DSL - Domestic Substances List (Canada)
- CICS - Chinese Inventory of Chemical Substances
- EINECS - European Inventory of Existing Commercial Chemical Substances
- TSCA - Toxic Substances Control Act (USA)

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16 Other Information  
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Reason for revision:  
N/A. Original version

Given the variety of factors that can affect the use and application of a Lernapharm product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Lernapharm product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

User is responsible for determining whether the Lernapharm product is fit for a particular purpose and suitable for user's method of use or application.

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. LERNAPHARM MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

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