

**SAFETY DATA SHEET (SDS)**
**Section 1. Identification**

<b>Product identifier</b>	LORIS I.V.
<b>Other means of identification</b>	Category of product 106-00
<b>Recommended use and restrictions on use</b>	Antiseptic (containing 28-38 % of water) / Sealed pouches including less than 10 mL of alcohol
<b>Initial supplier identifier</b>	Lernapharm (Loris) Inc., 2323 Halpern, St-Laurent (Montreal) Québec, Canada H4S 1S3 Telephone: 514-331-4634
<b>Emergency telephone number/restriction on use</b>	Canada – CANUTEC 24 hour number 613-996-6666

**Section 2. Hazard identification**

<b>Classification of hazardous product (name of the category or subcategory of the hazard class)</b>
Flammable liquid (Category 2) Skin irritation (Category 3) Eye irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3), Central nervous system

**Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)**


Danger

H225 Highly flammable liquid and vapour.

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bound container and receiving equipment. P241 Use explosion-proof equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands/nails/face thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear gloves/protective clothing/eye protection/face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a doctor if you feel unwell. P305 + P351 + P338 IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention. P370 + P378 In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish. P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

<b>Other hazards known</b>	None
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**Section 3. Composition/information on ingredients**

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
Isopropanol	67-63-0	60-70
Chlorhexidine digluconate	18472-51-0	2

\* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

**Section 4. First-aid measures**

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
<b>Skin contact</b>	None in normal conditions of use.
<b>Eye contact</b>	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

<b>Most important symptoms and effects (acute or delayed)</b>	May be harmful if swallowed and enters airways.
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<b>Indication of immediate medical attention/special treatment</b>	In all cases, call a doctor. Do not forget this document.
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**Section 5. Fire-fighting measures**

<b>Specific hazards of the hazardous product (hazardous combustion products)</b>
Carbon oxides and other irritant/toxic gases and fumes.
<b>Suitable and unsuitable extinguishing media</b>
In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish.
<b>Special protective equipment and precautions for fire-fighters</b>
During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

#### Methods and materials for containment and cleaning up

Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

### Section 7. Handling and storage

#### Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use only in a well-ventilated area. Avoid contact with eyes, skin and clothing. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Refer also to Section 8.

#### Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from incompatible materials (Section 10).

### Section 8. Exposure controls/Personal protection

#### Control parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: CAS 67-63-0 – ACGIH – TLV-TWA 200 ppm & TLV-STEL 400 ppm & PEL-TWA 400 ppm. CAS 18472-51-0 none.

#### Appropriate engineering controls

General ventilation normally adequate. Make emergency eyewash stations available in work area.

#### Individual protection measures/personal protective equipment

No respiratory protection is required with adequate ventilation under normal use. Practice good personal hygiene after using this material.

### Section 9. Physical and chemical properties

<b>Appearance, physical state/colour</b>	Light red liquid	<b>Vapour pressure</b>	Not available
<b>Odour</b>	Alcohol	<b>Vapour density</b>	Heavier than air
<b>Odour threshold</b>	Not available	<b>Relative density</b>	0.872-0.887
<b>pH</b>	5-8	<b>Solubility</b>	Soluble
<b>Melting/freezing point</b>	Not available	<b>Partition coefficient - n-octanol/water</b>	Not available
<b>Initial boiling point/range</b>	80°C	<b>Auto-ignition temperature</b>	Not available
<b>Flash point</b>	13°C	<b>Decomposition temperature</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Viscosity</b>	< 5 mm <sup>2</sup> /s @ 20°C
<b>Flammability (solids and gases)</b>	Not available	<b>VOC</b>	Not available
<b>Upper and lower flammability/explosive limits</b>	2.0 % - 12.0 %	<b>Other</b>	None known

### Section 10. Stability and reactivity

#### Reactivity

Does not react under the recommended storage and handling conditions prescribed.

#### Chemical stability

Stable under the recommended storage and handling conditions prescribed.

#### Possibility of hazardous reactions

Accumulation of flammable/explosive vapours.

#### Conditions to avoid (static discharge, shock or vibration)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges.

#### Incompatible materials

Oxidizing materials; acids; etc.

#### Hazardous decomposition products

None known

### Section 11. Toxicological information

#### Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

May be harmful if swallowed and enters airways. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

#### Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.

#### Delayed and immediate effects (chronic effects from short-term and long-term exposure)

Skin Sensitization – No data available; Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA Reproductive Toxicity – No data available; Specific Target Organ Toxicity – Single Exposure – Central nervous system; Specific Target Organ Toxicity – Repeated Exposure – No data available; Aspiration Hazard – Unlikely, but possible; Health Hazards Not Otherwise Classified – No data available.

#### Numerical measures of toxicity (ATE; LD<sub>50</sub> & LC<sub>50</sub>)

CAS 67-63-0 LD<sub>50</sub> Oral - Rat - 4720 mg/kg; LC<sub>50</sub> Inhalation - Rat - 4 h – 17000 ppm; LD<sub>50</sub> Dermal - Rabbit - 12890 mg/kg

CAS 18472-51-0 none

ATE not available in this document.

<b>Section 12. Ecological information</b>	
<b>Ecotoxicity (aquatic and terrestrial information)</b>	
No data available for this product. CAS 67-63-0 Toxicity to fish LC <sub>50</sub> – Pimephales promelas (fathead minnow) 9640 mg/l - 96 h; Toxicity to daphnia and other aquatic invertebrates LC <sub>50</sub> - Daphnia magna (Water flea) 5102 mg/l - 24 h; Immobilization EC50 - Daphnia magna (Water flea) - 6851 mg/l - 24 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2000 mg/l - 72 h EC50 - Algae - > 1000 mg/l - 24 h; CAS 18472-51-0 no data available.	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Other adverse effects</b>	No data available
<b>Section 13. Disposal considerations</b>	
<b>Information on safe handling for disposal/methods of disposal/contaminated packaging</b>	
Dispose of contents/container into safe container in accordance with local, regional or national regulations.	
<b>Section 14. Transport information</b>	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations</b>	
NOT REGULATED as per special provision 56 in quantity of less than 10 mL UN3175; SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol); Class 4.1; PG II	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)</b>	
NOT REGULATED as per special provision 216 in quantity of less than 10 mL UN3175; SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol); Class 4.1; PG II	
<b>UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)</b>	
NOT REGULATED as per special provision A46 in quantity of less than 10 mL UN3175; SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol); Class 4.1; PG II	
<b>Special precautions (transport/conveyance)</b>	May also be shipped as NOT REGULATED in accordance with TDG-IMDG-IATA special provisions.
<b>Environmental hazards (IMDG or other)</b>	None
<b>Bulk transport (usually more than 450 L in capacity)</b>	Possible
<b>Section 15. Regulatory information</b>	
<b>Safety/health Canadian regulations specifics</b>	Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
<b>Environmental Canadian regulations specifics</b>	Refer to Section 3 for ingredient(s) of the DSL
<b>Safety/health/environmental outside regulations specifics</b>	
None	
<b>Section 16. Other information</b>	
<b>Date of the latest revision of the safety data sheet</b>	August 30, 2021 version 3
<b>Corrections</b>	Section 1; 3; 4; 7; 8; 12; 14;
<b>References</b>	Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.
<b>Abbreviations</b>	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.	