

# ExoSAP-IT®

Safety Data Sheet (SDS) produced in compliance with 29 CFR 1910.1200 and Commission Regulation EU no 453/2010 amending Regulation 1907/2006 (REACH) and Regulation (EC) no 1272/2008 (CLP).

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>1.1 Product Identifier</b>	ExoSAP-IT
<b>Product Cat ID</b>	5300025, 22000D, 5311025D, 22110D, 5320025, 22200D, 5351025, 22510D, 5341025D, 22410D, A15571, A15573, 5331025
<b>Synonyms</b>	None
<b>SDS Date Of Revision</b>	See Footer of Document 16 Nov 2022
<b>1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against</b>	Use for ST016-1, STS016-1, STS016-2
<b>1.3 Manufacturer</b>	One Lambda, Inc.
<b>E-Mail</b>	1lambda-TechSupport@thermofisher.com
<b>1.4 Emergency Telephone Number</b>	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC (24 hours) 1-800-424-9300 CCN 836833 USA and Canada +1-703-741-5970 Outside USA and Canada

## 2. HAZARDS IDENTIFICATION

<b>2.1 Classification Of The Substances Or Mixtures</b>	<b>GHS Classification:</b> Not classified as hazardous  <b>EU Preparation Classification (1999/45/EC):</b> Not classified as dangerous
<b>2.2 Label Elements</b>	None Required
<b>2.3 Other Hazards</b>	None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

Chemical	CAS/EINECS Number	Amount (gm%)	CLP/GHS/ EU (67/548/EEC) Classification
Glycerol	56-81-5/200-289-5	40-70%	Not Classified

See Section 16 for further information on GHS and EU Classification.

All other components non-hazardous as defined by the US OSHA Hazard Communication Regulation (29 CFR 1910.1200), Canada's WHMIS regulations and the EU Directives on the classification and labeling of dangerous substances and preparation.



**4. FIRST-AID MEASURES**

- |   |  |
|---|--|
| <b>4.1 Description of First Aid Measures</b>  | <p><b>In case of eye contact:</b> Flush eyes with large amounts of water. Seek medical attention if irritation occurs and persists.</p> <p><b>In case of skin contact:</b> Wash skin with soap and large amounts of water. Seek medical attention if irritation occurs and persists. Launder contaminated clothing before reuse.</p> <p><b>In case of ingestion:</b> Rinse mouth with water. Then have person drink 1-2 glasses of water. Call a physician if you feel unwell.</p> <p><b>In case of inhalation:</b> Move person to fresh air. If breathing difficulty or discomfort occurs and persists, call a physician.</p> |
| <b>4.2 Most Important Symptoms and Effects, both acute and delayed</b>                | <p>Prolonged or repeated exposure may cause mild irritation to eyes and skin. Inhalation of mists may cause minor respiratory irritation.</p>  |
| <b>4.3 Indication of any Immediate Medical Attention and Special Treatment Needed</b> | <p>Immediate medical attention is not required.</p>  |

**5. FIRE-FIGHTING MEASURES**

- |  |  |
|--|--|
| <b>5.1 Extinguishing Media</b>                                   | <p>Use any media appropriate for the surrounding fire.<br/> <b>Extinguishing media NOT to use:</b> None known.</p> |
| <b>5.2 Special Hazards Arising from the Substance or Mixture</b> | <p>None.<br/> <b>Hazardous Combustion Products:</b> Emits oxides of carbon and nitrogen under fire conditions.</p> |
| <b>5.3 Advice for Fire-Fighters</b>                              | <p>Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.</p>      |

**6. ACCIDENTAL RELEASE MEASURE**

- |   |   |
|---|---|
| <b>6.1 Personal Precaution, Protective Equipment and Emergency Procedures</b> | <p>Wear protective equipment while cleaning. Avoid prolonged contact with skin and eyes.</p>  |
| <b>6.2 Environmental Precautions</b>  | <p>None known.</p>  |
| <b>6.3 Methods and Material for Containment and Cleaning Up</b>               | <p>Contain spill and collect with an inert absorbent material. Collect and place in an appropriate waste disposal container. Wash residual traces with water.</p> |
| <b>6.4 References to Other Sections</b>                                       | <p>See Section 8 for appropriate personal protective equipment and Section 13 for proper waste disposal methods.</p>  |

**7. HANDLING AND STORAGE**

- |   |   |
|---|---|
| <b>7.1 Precautions for Safe Handling</b>                                | <p>Wear laboratory coat, safety glasses and chemically resistant gloves. Use good laboratory practices. Avoid prolonged contact with eyes, skin and clothing. Wash hands thoroughly after handling.</p> |
| <b>7.2 Conditions for Safe Storage, Including Any Incompatibilities</b> | <p>Refer to product label for storage information.</p>  |

## 7.3 Specific End Use(s)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control Parameters

Chemical	Occupational Exposure Limits/Source
Glycerol	5 mg/m <sup>3</sup> (respirable fraction), 15 mg/m <sup>3</sup> (total dust) TWA OSHA PEL 50 mg/m <sup>3</sup> (inhalable) TWA, 100 mg/m <sup>3</sup> (inhalable) STEL DFG MAK 10 mg/m <sup>3</sup> TWA UK WEL (as mist) 10 mg/m <sup>3</sup> TWA France, Spain, Belgium

## 8.2 Exposure Controls

**Engineering Controls:** General laboratory ventilation should be adequate for normal use.

**Respiratory protection:** None are normally needed.

**Hand protection:** Wear chemically resistant gloves to avoid prolonged skin contact.

**Eye protection:** Wear standard laboratory safety glasses.

**Skin protection:** Wear laboratory coat.

**Other Controls:** Safety shower and eye bath are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic Physical and Chemical Properties:

To the best of our knowledge, the chemical and physical properties have not been thoroughly investigated.

<b>Appearance:</b> Clear, colorless liquid	<b>Vapor Density:</b> 3.17 (Glycerol)
<b>Odor:</b> Mild odor	<b>Specific Gravity:</b> No data available
<b>Odor Threshold:</b> No data available	<b>Solubility:</b> Soluble in Water
<b>pH:</b> Not available	<b>Octanol/Water Partition Coefficient:</b> No data available
<b>Melting Point/Freezing Point:</b> 18.1°C (64.58°F) (Glycerol)	<b>Autoignition Temperature:</b> 392.8°C (739°F) (Glycerol)
<b>Boiling Point:</b> No data available	<b>Decomposition Temperature:</b> 290°C (554°F) (Glycerol)
<b>Flash Point:</b> 177°C (350.6°F)(open cup) (Glycerol)	<b>Viscosity:</b> No data available
<b>Evaporation Rate:</b> No data available	<b>Explosive Properties:</b> Not explosive
<b>Flammable Limits:</b> LEL: Not applicable UEL: Not applicable	<b>Oxidizing Properties:</b> Not an oxidizer
<b>Vapor Pressure:</b> No data available	<b>Relative Density:</b> No data available
<b>Molecular Formula:</b> Mixture	<b>Flammability (solid, gas):</b> Not applicable
<b>Molecular Weight:</b> Mixture	

9.2 Other Information: None available

## 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

Not reactive under normal conditions.

## 10.2 Chemical Stability

Stable under normal storage and handling conditions.

## 10.3 Possibility of Hazardous Reactions

None known

## 10.4 Conditions to Avoid

None known

## 10.5 Incompatible Materials

Avoid contact with strong oxidizing agents, acids and bases.

## 10.6 Hazardous Decomposition Products

Thermal decomposition may produce oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on Toxicological Effects

• <b>Inhalation</b>	Inhalation of mists may cause minor respiratory irritation with sneezing and coughing.
• <b>Ingestion</b>	Small amounts are not anticipated to cause adverse effects. Large quantities may cause gastrointestinal disturbances. Excessive exposure to glycerol may cause central nervous system effects and increased blood sugar levels.
• <b>Skin Contact</b>	Prolonged exposure may cause mild skin irritation.
• <b>Eye Contact</b>	Prolonged exposure may cause mild eye irritation.
• <b>Chronic Effects of Overexposure</b>	No adverse effects expected under normal use. Repeated excessive exposures to glycerol may cause increased fat levels in the blood and damage to the kidney and liver.
• <b>Carcinogen or Suspected Carcinogen</b>	None of the components are listed as a carcinogen or suspected carcinogen.
• <b>Acute Toxicity Values</b>	Glycerol: Oral rabbit LD50- >12,600 mg/kg, Dermal rabbit LD50 - >10,000 mg/kg, Inhalation rat LC50 - >570 mg/m3/1hr  To the best of our knowledge, the toxicological properties have not been thoroughly investigated.
• <b>Skin corrosion/irritation</b>	No data available.
• <b>Eye damage/irritation</b>	No data available.
• <b>Respiratory Irritation</b>	No data available.
• <b>Respiratory Sensitization</b>	No data available.
• <b>Skin Sensitization</b>	No data available. Not expected to be sensitizing.
• <b>Germ Cell Mutagenicity</b>	Glycerol: Negative in AMES, in-vitro sister chromatid exchange and unscheduled DNA synthesis. This product is not expected to cause mutagenic activity.
• <b>Carcinogenicity</b>	None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.
• <b>Reproductive Toxicity</b>	Glycerol: No effects were observed in a 2 generation study at doses of 0.2 mg/kg/day. No developmental effects were observed in rabbits administered up to 1180 mg/kg or in rats or mice administered up to 1310 mg/kg. This product is not expected to cause adverse reproductive effects.
• <b>Specific Target Organ Toxicity</b>	Single Exposure: Glycerol: When placed into the eye of a rabbit, glycerol will cause an inflammatory reaction, edema of the cornea and damage of the endothelial cells.  Repeat Exposure: Glycerol: In a 13 week sub-chronic inhalation study with rats, glycerol was found to cause mild irritation of mucous membranes. In a 2 year study in rats, no adverse effects were found in animals with 20% glycerol in their feed.

## 12. ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	No data available.
12.2	<b>Persistence and Degradability</b>	No data available.
12.3	<b>Bioaccumulative Potential</b>	No data available.
12.4	<b>Mobility in Soil</b>	No data available.
12.5	<b>Results of PBT and vPvB Assessment</b>	Not required.
12.6	<b>Other Adverse Effects</b>	None known.

**13. DISPOSAL CONSIDERATION****13.1 Waste Treatment Methods**

Dispose of with biohazardous waste.  
*Dispose of in accordance with all federal, state, and local environmental regulations.*

**14. TRANSPORT INFORMATION**

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	Not applicable
Canadian TDG	None	Not Regulated	None	None	Not applicable
EU ADR/RID	None	Not Regulated	None	None	Not applicable
IMDG	None	Not Regulated	None	None	Not applicable
IATA/ICAO	None	Not Regulated	None	None	Not applicable

**14.6 Special Precautions for User**

Not applicable.

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**15. REGULATORY INFORMATION****15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture**

U.S. TSCA Inventory: Not determined. The product is a medical device.  
 U.S. SARA Title III:  
     • Section 311/312 Hazard Categories: Not hazardous  
     • Section 313 (40 CFR 372): Not listed.  
 California Proposition 65: This product does not contain any chemicals currently on the California list of known carcinogens and reproductive toxins.  
 Canadian Environmental Protection Act: Not determined. The product is a medical device.  
 European Inventory of Existing Commercial Chemical Substances: Not determined. The product is a medical device.  
 Australia: Not determined. The product is a medical device.  
 Japan: Not determined. The product is a medical device.  
 Korea: Not determined. The product is a medical device.  
 Philippines: Not determined. The product is a medical device.  
 China: Not determined. The product is a medical device.

**16. OTHER INFORMATION**

NFPA Rating: Fire: 1                      Health: 1                      Instability: 0

**GHS Classes and Hazard Phrases for Reference (See Sections 2 and 3):**  
 None

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**  
 None

**17. REVISION HISTORY**

Revision	Date	Revision Description
02	21 Sep 2019	Updated contact information and address to reflect change in legal manufacture site.
03	13 May 2022	Update Chemtrec number; update to add Product Cat ID
04	16 Nov 2022	Remove discontinued SeCore SKU or Cat ID references.