

Trade name / Substance name: Argen Lab Hand Sanitizer Spray

**SAFETY DATA SHEET**

(\*) concerns only chemical notification

(\*\*) either 3.1 or 3.2 must be filled

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Trade name / Substance name**

Argen Lab Hand Sanitizer Spray (20, 100, 1 000 ml)

**Company product code**

AL27, AL31

**REACH Registration number**

Not applicable, because the product is a mixture.

**1.2 Relevant identified uses of the substance or mixture and uses advised against****The uses of the chemical**

Hand disinfection.

**Classification of economic activities (NACE) (\*)****Use categories (UC62) (\*)****The chemical can be used by the general public (\*)****The chemical is used by the general public only (\*)****1.3 Details of the supplier of the Safety Data Sheet****Supplier**

Argen Lab Oy

**Street address**

Pallotie 2

**Postcode and post office**

FI-33470 Ylöjärvi, Finland

**Post-office box****Postcode and post office****Telephone number**

+358 3 255 4441

**Telefax**

+358 9 4159 2320

**E-mail address**

info@argenlabglobal.com

**Finnish Business ID (Y code) (\*)**

FI25368581

**1.4 Emergency telephone number**

Denmark	National emergency number: 82 12 12 12 (Gifflinjen, Bispebjerg Hospital).
Taiwan	National emergency number: 119

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Not classified as hazardous according to 1999/45/EC.

**2.2 Label elements**

Active ingredient: Silver chloride (&lt;0.1%)

**According to 1999/45/EC**

None.

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**2.3 Other hazards**

None.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Substances (\*\*)****3.2 Mixtures (\*\*)**

Substance name	CAS- or EC-number	REACH Registration No.	Concentration	Classification
Silver(I) chloride	7783-90-6	Biocide, not applicable	<0.1%	N;R50/53

**SECTION 4: FIRST AID MEASURES****Inhalation**

Remove to fresh air if symptoms are experienced.

**Eyes**

Immediately flush eye(s) with plenty of water for several minutes. Remove contact lenses, if present and easy to do and continue flushing for several minutes. Seek medical attention if irritation persists.

**Skin**

Flush with water if irritation occurs.

**Ingestion**

Flush mouth with water. Seek medical attention if large quantities have been ingested.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Powder, foam, carbon dioxide and water.

**5.2 Special hazards arising from the substance or mixture**

Not known.

**5.3 Advice for firefighters**

Product is aqueous and is not flammable.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Reclamation and collection of spillage is started immediately if large quantities of liquid is spilled into environment or soil.

**6.2 Environmental precautions**

Prevent entry into drains and sewers, waters, and soil in large quantities.

**6.3 Methods and material for containment and cleaning up**

In case of small spillage, can be flushed into drain with plenty of water. In case of bigger spillage, collect with adequate containers and/or absorb into porous material. Inform local authorities if bigger spillages cannot be prevented.

**6.4 Reference to other sections**

None.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

No special precautions required.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage in well-ventilated areas at room temperature. Avoid storing at elevated temperatures (&gt; 40 °C). Protect from sunlight. Protect from freezing. See Section 10.1 for incompatible materials.

**7.3 Specific end use(s)**

None.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

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**Exposure limit values**Silver(I) chloride (powder) 8 h = 0,1 mg/m<sup>3</sup>**Other limit values**

Not available.

**DNEL**

Not available.

**PNEC**

Not available.

**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good hygiene and safety practices.

**Eye / face protection**

Not necessary.

**Skin protection**

Not necessary.

**Hand protection**

Not necessary.

**Respiratory protection**

Not necessary.

**Thermal hazards**

None.

**Environmental exposure controls**

Prevent entry into drains and sewers, waters, and soil in large quantities.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on physical and chemical properties**

<b>Appearance</b>	Colourless liquid.
<b>Odour</b>	Neutral.
<b>Odour threshold</b>	Not available.
<b>pH</b>	8.5 ± 1.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	> 100 °C.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Miscible in water.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

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<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.

<b>9.2 Other information</b>
None.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Acids, bases, and impurities may cause inactivation of active ingredient. It is not allowed to add anything into the product.
<b>10.2 Chemical stability</b>	Stable under normal conditions of use and storage. Product package should not be replaced if not otherwise instructed.
<b>10.3 Possibility of hazardous reactions</b>	Inactivation of active ingredient if instructions are not followed.
<b>10.4 Conditions to avoid</b>	Protect from sunlight and do not expose to temperatures exceeding 40 °C. Protect from freezing.
<b>10.5 Incompatible materials</b>	Not available.
<b>10.3 Hazardous decomposition products</b>	Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>
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### Acute toxicity

Silver(I) chloride (powder) LD50 > 5110 mg/kg (oral, rat)

### Skin corrosion/irritation

Product is not corrosive to skin. Skin irritation has not been reported.

### Serious eye damage/irritation

Irritation reactions have not been reported.

### Respiratory or skin sensitisation

Skin sensitisation has not been reported.

### Germ cell mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### STOT-single exposure

Not available.

### STOT-repeated exposure

Not available.

### Aspiration hazard

Not available.

### Other information

Not available.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>
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Silver(I) chloride (powder) LC50/96h/fish (Pimephales promelas) = 1,93 mg/l

<b>12.2 Persistence and degradability</b>	Silver(I) chloride (powder) Not available.
<b>12.3 Bioaccumulative potential</b>	Silver(I) chloride (powder) Not available.
<b>12.4 Mobility in soil</b>	Product is readily water miscible and may move with surface and table water.
<b>12.5 Results of PBT and vPvB assessment</b>	Not known.
<b>12.6 Other adverse effects</b>	Product has a broad spectrum against microorganisms such as bacteria, fungi, and mold.

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	Rinse empty package with water and recycle in accordance with federal, state, and local regulations.
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**SECTION 14: TRANSPORT INFORMATION**

	<b>Land transport</b>	<b>Sea transport</b>	<b>Air transport</b>
<b>14.1 UN number</b>	Non-hazardous	Non-hazardous	Non-hazardous
<b>14.2 UN proper shipping name</b>	Disinfectant	Disinfectant	Disinfectant
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	-	Marine pollutant: No	-

<b>14.6 Special precautions for user</b>	Not known.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not known.

**SECTION 15: REGULATORY INFORMATION**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	Use biocides safely. Always read the label and product information before use.
<b>15.2 Chemical safety assessment</b>	Not available for this mixture.

**SECTION 16: OTHER INFORMATION****Indication of changes**

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**Abbreviations and acronyms**

None.

**Key literature references and sources for data**

Publicly available toxicity information. Safety data sheets of the raw materials of the mixture.

**Used method in evaluating classification**

Classified and labelled according to directive 1999/45/EC.

**List of relevant R-and S-phrases or/and safety and precautionary statements**

None.

**Training advice for workers**

Information not available.