# Safety Data Sheet

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name : Silver(I) oxide, 99.99%
Product code : GX5928
CAS number : 20667-12-3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

PC21: Laboratory chemicals.

### 1.3 Details of the supplier of the safety data sheet

Company name : Glentham Life Sciences Ltd
Unit 5 Leafield Way
Corsham SN13 9SW
United Kingdom

Telephone : +44 (0) 1225 667 798
Fax : +44 (0) 2033 978 909
Email : info@glentham.com
Web : www.glentham.com

### 1.4 Emergency telephone number

Emergency telephone number: +44 (0) 1225 667 798 (09.00 – 17.00 GMT)

### 1.5 REACH

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification under CLP**

Ox. Sol. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1.

### 2.2 Label elements

**Label elements under CLP**

**Pictograms**



**Signal words** Danger

**Hazard statements**

H272 May intensify fire, oxidiser.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

**PBT**

This substance is not identified as a PBT substance.

## 3.0 Composition/information on ingredients

### 3.1 Substances

Product name : Silver(I) oxide, 99.99% MW: 231.74
CAS number : 20667-12-3 MF : $Ag_2O$

## 4.0 First aid measures

### 4.1 Description of first aid measures

**Skin contact**

Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact**

Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. Consult a doctor.

**Ingestion**

Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Consult a doctor. Transfer to hospital as soon as possible.

**Inhalation**

Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

**4.2 Most important symptoms and effects, both acute and delayed**

**Skin contact**

There may be mild irritation at the site of contact. Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact**

There may be irritation and redness. Corneal burns may occur. May cause permanent damage.

**Ingestion**

There may be soreness and redness of the mouth and throat. Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose. There may be irritation of the throat.

**Inhalation**

There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects**

Immediate effects can be expected after short-term exposure. Delayed effects can be expected after long-term exposure.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Immediate / special treatment**

Eye bathing equipment should be available on the premises. Not applicable.

## 5.0 Fire-fighting measures

**5.1 Extinguishing media**

Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.

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

**Exposure hazards**

Oxidising. Corrosive. In combustion emits toxic fumes.

**5.3 Advice for fire-fighters**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6.0 Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS.

**6.2 Environmental precautions**

Do not discharge into drains or rivers.

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

**Clean-up procedures**

Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

**6.3 Reference to other sections**

Refer to section 8 of SDS.

## 7.0 Handling and storage

**7.1 Precautions for safe handling**

**Handling requirements**

Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.

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

**Storage conditions**

Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity. Avoid incompatible materials and conditions - see section 10 of SDS.

**7.3 Specific end use(s)**

No data available.

## 8.0 Exposure controls/personal protection

**8.1 Control parameters**

**Workplace exposure limits**

Not applicable.

**8.2 Exposure controls**

**Engineering measures**

Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Not applicable.

**Respiratory protection**

Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.

**Hand protection**

Protective gloves.

**Eye protection**

Safety glasses. Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection**

Protective clothing.

## 9.0 Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

Physical Form:

Colour:

**9.2 Other information**

Not applicable.

## 10.0 Stability and reactivity

**10.1 Reactivity**

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

**10.4 Conditions to avoid**

Heat.

**10.5 Incompatible materials**

**Materials to avoid**

Strong acids. Strong oxidising agents. Organic materials.

## 11.0 Toxicological information

**11.1 Information on toxicological effects**

**Toxicity values**

Not applicable.

**11.2 Information on toxicological effects**

**Skin contact**

There may be mild irritation at the site of contact. Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact**

There may be irritation and redness. Corneal burns may occur. May cause permanent damage.

**Ingestion**

There may be soreness and redness of the mouth and throat. Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose. There may be irritation of the throat.

**Inhalation**

There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects**

Immediate effects can be expected after short-term exposure. Delayed effects can be expected after long-term exposure.

**Other information**

## 12.0 Ecological information

**12.1 Toxicity**

Not applicable.

**12.2 Persistence and degradability**

Not biodegradable. Biodegradable.

**12.3 Bioaccumulative potential**

No bioaccumulation potential. Bioaccumulation potential.

**12.4 Mobility in soil**

Readily absorbed into soil.

**12.5 Results of PBT and vPvB assessment**

This substance is not identified as a PBT substance.

**12.6 Endocrine disrupting properties**

Negligible ecotoxicity. Toxic to aquatic organisms.

## 13.0 Disposal considerations

**13.1 Waste treatment methods**

**Disposal operations**

Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB**

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14.0 Transport information

**14.1 UN number**

UN1479

**14.2 UN proper shipping name**

Oxidizing solid, n.o.s. (Silver(I) oxide, 99.99%)

**14.3 Transport hazard class(es)**

5.1

**14.4 Packing group**

II

**14.5 Environmental hazards**

N/A

**14.6 Special precautions for user**

No special precautions.

## 15.0 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not applicable.

**Chemical Safety Assessment**

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## 16.0 Other information

**Other information**

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

**Legal disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.