

**MATERIAL SAFETY DATA SHEET****Product Name:** Silver oxide**CAS No.:** 20667-12-3**Version:** 0**1. Identification**

**Product Code** : 90232, 90537  
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**2. Hazards Identification****Hazard classification**

Oxidizing solids : Category 1  
Serious eye damage : Category 1  
Acute aquatic toxicity : Category 1  
Chronic aquatic toxicity : Category 1

**Label elements****Hazard symbol**

**Signal word** : Danger

**Hazard statement** : May cause fire or explosion; strong oxidiser.  
Causes serious eye damage.  
Very toxic to aquatic life with long lasting effects.

**Precautionary statement** : Keep/Store away from clothing/ combustible materials.  
Avoid release to the environment.  
Wear protective gloves/ eye protection/ face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/ container to an approved waste disposal plant.

**Supplemental Hazard Statements** : None.

**3. Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>PERCENT</b>
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Silver oxide

20667-12-3

NLT 99.5%

**4. First Aid Measures****Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation**

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact**

: Wash off with soap and plenty of water. Consult a physician.

**Eye contact**

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Swallowed**

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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

: No data available

**5. Fire fighting measures****Extinguishing media****Suitable extinguishing media**

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

: Silver/silver oxides

**Advice for firefighters**

: Wear self contained breathing apparatus for firefighting if necessary

**Further information**

: Use water spray to cool unopened containers.

**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions**

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for**

: P Sweep up and shovel. Contain spillage, and then collect with

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**containment and cleaning up** : an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section13). Keep in suitable, closed containers for disposal.

**Reference to other sections** : For disposal see section 13.

**7. Handling and Storage**

**Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Specific end use(s)** : No data available

**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls**

**Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection** : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..

**Respiratory protection** : Respiratory protection is required.

**9. Physical and Chemical Properties**

**Appearance** : Heavy brownish-black powder.

**Odor** : No data available

**pH** : No data available

**Melting point/freezing point** : No data available

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<b>Initial boiling point and boiling range</b>	: No data available
<b>Flash Point</b>	: No data available
<b>Vapor pressure</b>	: No data available
<b>Vapor density</b>	: No data available
<b>Relative density</b>	: 7.143 g/cm <sup>3</sup>
<b>Solubility in water</b>	: 0.0016 g/l at 20 °C - slightly soluble
<b>Solubility (other)</b>	: No data available
<b>Formula</b>	: Ag <sub>2</sub> O
<b>Molecular Weight</b>	: 231.74 g/mol

**10. Stability and Reactivity**

<b>Reactivity</b>	: No data available
<b>Chemical stability</b>	: Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	: No data available
<b>Conditions to avoid</b>	: Light.
<b>Incompatible materials</b>	: Strong oxidizing agents, Strong acids, Ammonia, Amines
<b>Hazardous decomposition products</b>	: No data available

**11. Toxicological Information****Information on toxicological effects**

<b>Acute toxicity</b>	: LD50 Oral - Rat - male and female - 3.804 mg/kg (OECD Test Guideline 401)
<b>Skin corrosion/irritation</b>	: No skin irritation
<b>Serious eye damage/eye irritation</b>	: Risk of serious damage to eyes.
<b>Respiratory or skin sensitization</b>	: No data available
<b>Germ cell mutagenicity</b>	: No data available
<b>Carcinogenicity</b>	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity</b>	: No data available.
<b>Specific target organ toxicity - single exposure</b>	: No data available.
<b>Specific target organ toxicity - repeated exposure</b>	: No data available
<b>Aspiration hazard</b>	: No data available
<b>Signs and Symptoms of Exposure</b>	: No data available

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**Toxicity** : No data available  
**Persistence and degradability** : No data available  
**Bioaccumulative potential** : No data available  
**Mobility in soil** : No data available.  
**Other adverse effects** : Very toxic to aquatic life with long lasting effects.

**13. Disposal consideration**

**Disposal instructions** : Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.  
**Contaminated packaging** : Dispose of as unused product.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	1479	Disilver oxide	5.1	I	YES
<b>IMDG</b>	1479	Disilver oxide	5.1	I	YES
<b>IATA</b>	1479	Disilver oxide	5.1	I	YES

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date** :01/08/2014**Version** : 0

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