



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** SILVER SULFATE

**SDS Number:** SDS-6133

**Revised Date:** 28 FEBRUARY 2018

**Product Use:** INDUSTRIAL USE . (Ag<sub>2</sub>SO<sub>4</sub>)

#### MANUFACTURER:

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## 2. HAZARDS IDENTIFICATION

**PRIMARY ROUTES OF ENTRY:**

\*Eye      \*Inhalation      \*Skin      \*Ingestion      NTP

**CARCINOGEN LISTED IN:**

IARC      OSHA      \*Not Listed

GHS:



Signal Word: Danger

Hazard statement(s)

H318 Causes serious eye damage  
 H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P233 Keep container tightly closed  
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P270 Do not eat, drink or smoke when using this product  
 P273 Avoid release to the environment  
 P280 Wear protective gloves/protective clothing/eye protection/face protection  
 P362 +P364 Take off contaminated clothing and wash before reuse  
 P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell  
 P302 +P352 IF ON SKIN: Wash with plenty of soap and water  
 P304 + 341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins)  
 P391 Collect spillage

Classification:

Serious eye irritation- Category 1  
 Chronic aquatic toxicity- Category 1

**POTENTIAL HEALTH EFFECTS:**

**Eye Contact:** Causes eye damage, may be serious if not promptly removed..

**Ingestion:** May be harmful.

**Inhalation:** May cause irritation or harm.

**Skin Contact:** May cause irritation or harm.

**Note:** **The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Components	% wt/v	CAS Registry #/EINECS	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
Silver Sulfate	100	10294-26-5/233-653-7	N.E.	0.01	N.E.

N.E. = Not established

**4. FIRST AID MEASURES**

- Eye Contact:** Hold eyelids apart and flush eyes with plenty of tepid water for at least 15 minutes. Seek medical attention if irritation persists.
- Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.
- Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

**5. FIRE FIGHTING MEASURES**

- Flash Point:** Not established. **Method:** Not established.
- Auto-ignition Temperature:** Not established.
- Flammable Limits:** Limits not established. Not flammable. Will not burn.
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Water spray/dry chemical/carbon dioxide
- Special Fire Fighting Procedures:** Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

- Spill or Leak Procedures:** Isolate spill and clean up with absorbent or neutralize. Place material in proper waste container. An approved air purifying respirator with acid gas/particulate cartridge and other personal protective equipment such as gloves is recommended. Dispose of in accordance with Federal, State and Local regulations. Do not let product enter drain.

**7. HANDLING AND STORAGE**

- Handling:** Keep containers tightly closed when not in use. Use care to avoid spills. Wear appropriate personal protective equipment. Always thoroughly wash your hands after handling this product. DO NOT touch or rub eyes until hands are washed.
- Storage Precautions:** Store product in tightly capped original containers in a cool, well ventilated and dry area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls:** Exhaust ventilation is recommended to control any air contaminants.
- Personal protection:**
- Eyes:** Wear chemical safety glasses/goggles. The addition of a face shield may be necessary during some work practices.
- Respirator:** A NIOSH approved air-purifying respirator with an particulate filter is recommended under certain circumstances where airborne concentrations are expected to be elevated.
- Skin:** Compatible chemical resistant gloves. Nitrile gloves are recommended.
- Other:** Lab coat, apron, eyewash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.
- Work/Hygienic** Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                          |                      |                             |                 |
|--------------------------|----------------------|-----------------------------|-----------------|
| <b>Appearance:</b>       | Crystalline/white    | <b>Boiling Point:</b>       | Not established |
| <b>Odor:</b>             | Odorless             | <b>Melting Point:</b>       | 652C/1,206F     |
| <b>Specific Gravity:</b> | H <sub>2</sub> O = 1 | <b>pH:</b>                  | Not available   |
| <b>Vapor Pressure:</b>   | Not applicable.      | <b>Solubility in Water:</b> | Soluble         |
| <b>Vapor Density:</b>    | Not applicable       |                             |                 |

## 10. STABILITY AND REACTIVITY

- General:** Stable.
- Conditions to Avoid:** Not established.
- Incompatible Materials:** Strong oxidizing agents.
- Hazardous Decomposition / Combustion:** No data available
- Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

- |                         |   |    |
|-------------------------|---|----|
| <b>Carcinogenicity:</b> | <b>National Toxicology Program (NTP):</b>                       | No |
|                         | <b>Occupational Safety &amp; Health Administration (OSHA):</b>  | No |
|                         | <b>U.N. International Agency for Research on Cancer (IARC):</b> | No |

- |              |                  |              |                  |
|--------------|------------------|--------------|------------------|
| <b>LD50:</b> | Not established. | <b>LC50:</b> | Not established. |
|--------------|------------------|--------------|------------------|

May cause argyria (a slate gray or bluish discoloration of the skin and deep tissues). Chemical and physical properties have not been fully investigated.

## 12. ECOLOGICAL INFORMATION

Contains a substance that is harmful to aquatic organisms, and may cause long lasting effects.

Toxicity to fish: static test EC10-Salmo trutta-0.00019 mg/l-217d

EC50-daphnia (water flea)- 0.004 mg/l-48h

## 13. DISPOSAL CONSIDERATION

**Waste Disposal Method:** Dispose of in accordance with all Federal, State and Local environmental regulations.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN 3077, Environmentally hazardous substance, solid, N.O.S., 9, PG III (silver sulfate)



Ocean:

UN 3077, Environmentally hazardous substance, solid, N.O.S., 9, PG III MARINE POLLUTANT (silver sulfate)



Marine pollutant: YES

RQ (reportable quantity) 10 lbs

## 15. REGULATORY INFORMATION

The information in this Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

This product has been classified in accordance with the guidelines set by the Dept. of Industrial Health of the Republic of Singapore.

This product has been classified in accordance with Mexican regulations NOM-018-STPS-2015 and NOM-010-STPS-2014.

Malaysia:

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS). (GHS)

In China:

Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals

GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS)

GB/T 16483-2008, GB/T 17517-2013

This product has been classified using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007.

All ingredients are listed on the EPA TSCA Inventory.

## 16. OTHER INFORMATION

<b>HMIS Hazard Rating:</b>	<b>Health:</b>	2
	<b>Fire:</b>	0
	<b>Physical Hazards:</b>	0

**Revised Date:** 28 FEBRUARY 2018

**Prepared by:** Nancy Swarts, Indium Corporation of America

**Approved by:** Nancy Swarts, Indium Corporation of America

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