

Silver sulfate**10229-100G**

Version 1.1

Revision Date 11/30/2021

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Silver sulfate

Number : 000000020208

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or**
: **+1-703-527-3887**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : powder

Color : white

Odor : odourless

Classification of the substance or mixture

Classification of the substance or mixture : Serious eye damage, Category 1

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Causes serious eye damage.

Precautionary statements

: **Prevention:**

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/ doctor.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: Ag₂SO₄

Chemical nature

: Substance

Chemical name	CAS-No.	Concentration
Silver sulfate	10294-26-5	<=100.00 %

SECTION 4. FIRST AID MEASURES

General advice

: First aider needs to protect himself. Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

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- Inhalation : If inhaled, remove to fresh air. Call a physician.
- Skin contact : Wash off immediately with plenty of water. If symptoms persist, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.
- Ingestion : A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with this card

Notes to physician

- Most important symptoms/effects, acute and delayed : No information available.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water mist
Dry powder
Foam
Carbon dioxide (CO₂)
- Specific hazards during firefighting : The product itself does not burn.
Fire may cause evolution of:
Toxic gases/vapours
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Avoid breathing dust. |
| Environmental precautions | : | Prevent further leakage or spillage if safe to do so.
Do not allow run-off from fire fighting to enter drains or water courses. |
| Methods and materials for containment and cleaning up | : | Avoid dust formation.
Sweep up and shovel into suitable containers for disposal. |

SECTION 7. HANDLING AND STORAGE**Handling**

- | | | |
|-------------------------------|---|---|
| Precautions for safe handling | : | Wear personal protective equipment.
Never return unused material to storage receptacle.
Protect from contamination.
Use only in well-ventilated areas. |
|-------------------------------|---|---|

- | | | |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
|---|---|---|

Storage

- | | | |
|--|---|---|
| Conditions for safe storage, including any incompatibilities | : | Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Protect from physical damage.
Protect against light. |
|--|---|---|

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- | | | |
|---------------------|---|--|
| Protective measures | : | Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. |
|---------------------|---|--|

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Avoid breathing dust.

- Engineering measures : Use with local exhaust ventilation.
- Eye protection : Safety goggles
- Hand protection : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Protective suit
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Separate rooms are required for washing, showering and changing clothes.
Keep working clothes separately.
When using, do not eat, drink or smoke.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Silver sulfate	10294-26-5	TWA : Time weighted average	0.01 mg/m ³	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as Ag			
Silver sulfate	10294-26-5	REL : Recommended exposure limit (REL):	0.01 mg/m ³	2016	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Further information	:	Form of exposure : Dust. Expressed as : as Hg			

SAFETY DATA SHEET

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Silver sulfate	10294-26-5	PEL : Permissible exposure limit	0.01 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Ag			

Silver sulfate	10294-26-5	TWA : Time weighted average	0.01 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as Ag			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: powder
Color	: white
Odor	: odourless
Odor threshold	: Note: No data available
pH	: Note: No data available
Melting point/range	: 655 °C
Boiling point/boiling range	: Note: Not applicable, Decomposition
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: does not ignite

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Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: negligible
Vapor density	: Note: No data available
Density	: 5.45 g/cm ³ at 20 °C
Water solubility	: 8.16 - 8.26 g/l at 20 °C at 5.1 - 5.5 pH
Partition coefficient: n-octanol/water	: Note: No data available
Ignition temperature	: Note: Not applicable
Auto-ignition temperature	: Note: not auto-flammable
Decomposition temperature	: 1,085 °C Note: Decomposition temperature
Viscosity, dynamic	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 311.8 g/mol
Bulk density	: Note: No data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions. May decompose on long exposure to light.
Possibility of hazardous reactions	: Heating can release hazardous gases. Hazardous polymerisation does not occur.
Conditions to avoid	: Keep away from reducing agents. Protect against light.
Incompatible materials	: Acetylene Strong reducing agents
Hazardous decomposition products	: Fire may cause evolution of: Sulphur oxides Toxic metal compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	: Note: No data available
Acute dermal toxicity	: Note: No data available
Skin irritation	: Species: Rabbit Result: slight irritation Method: OECD Test Guideline 404

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Eye irritation : Species: Rabbit
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405

Sensitisation : Note: No data available

Further information
Silver sulfate : Risk of serious damage to eyes.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Toxicity to daphnia and other aquatic invertebrates : Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Toxicity to algae : Note: Conclusive and supporting classification (Ref: REACH Dossier - ECHA disseminated data)

Further information on ecology

Additional ecological information : The methods for determining biodegradability are not applicable to inorganic substances.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental

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regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 3077
	Proper shipping name	: Environmentally hazardous substances, solid, n.o.s. (Disilver(1+) sulphate)
	Class	: 9
	Packing group	: III
	Hazard Labels	: 9

IATA	UN/ID No.	: UN 3077
	Description of the goods	: Environmentally hazardous substances, solid, n.o.s. (Disilver(1+) sulphate)
	Class	: 9
	Packaging group	: III
	Hazard Labels	: 9
	Packing instruction (cargo aircraft)	: 956
	Packing instruction (passenger aircraft)	: 956
	Packing instruction (passenger aircraft)	: Y956

IMDG	UN/ID No.	: UN 3077
	Description of the goods	: Environmentally hazardous substances, solid, n.o.s. (DISILVER(1+) SULPHATE)
	Class	: 9
	Packaging group	: III
	Hazard Labels	: 9
	EmS Number	: F-A, S-F
	Marine pollutant	: yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

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SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemicals Act (AICC), as amended : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

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	: Silver sulfate	10294-26-5
SARA 311/312 Hazards	: Acute Health Hazard	
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
New Jersey RTK	: Silver sulfate	10294-26-5

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 0	0
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 09/29/2016

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group