



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : S 12109
Product Name : silver sulphate

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755
Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 10294-26-5 Ec-Index No.:
Molar Mass : 311.79 EC-No. : 233-653-7
Molecular Formula : $\text{Ag}_2\text{O}_4\text{S}$

3. HAZARDS IDENTIFICATION

Risks of serious damage to eyes.

4. FIRST AID MEASURES

After inhalation : fresh air.
After skin contact: wash off with plenty of water.
Remove contaminated clothing.
After eye contact : rinse out with plenty of water with eyelids held wide open. Summon doctor.
After swallowing : Make victim drink plenty of Water. Induce vomiting. consult doctor if feeling

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.
Special risks : Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire : sulphur oxides.
Other Information : Non-combustible. Contains escaping vapours with water.

6. ACCIDENTAL RELEASE MEASURES

Person – related precautionary measures :
Avoid generation of dusts, do not inhale dusts.
Environmental protection measures : Do not allow to enter sewage system
Procedures for cleaning / absorption : Take up dry. Forward for disposal.
Clean up affected area.



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7. HANDLING AND STORAGE

Handling : Protect from light..
Storage : Tightly closed . Dry . Protected from light.
Storage temperature : No restrictions

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment
Respiratory protection : Required when dusts are generated.
Eye protection : Required
Hand protection : Not required.

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Industrial hygiene : Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|---|------------------------|
| Form | : | Solid |
| Colour | : | White |
| Odour | : | Odourless |
| Melting temperature | : | 434 °C |
| Boiling temperature | : | Not available |
| pH value at 5 g/l H ₂ O(20°C) | : | ~5-6 |
| Ignition temperature | : | Not available |
| Flash point | : | Not available |
| Explosion limits lower | : | Not available |
| Upper | : | Not available |
| Relative vapour density | : | Not available |
| Density (20°C) | : | 5.45 g/cm ³ |
| Solubility in water (20°C) | : | 8 g/l |
| water (100°C) | : | 15g/l |

10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong Heating.
Substance to be avoided : None
Hazardous decomposition products : In event of fire: sulphur oxides.
Further information : Light sensitive.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : LD₅₀ (oral, rat) : 5000 mg/ Kg
Skin irritation test (rabbit) : No irritation
Eye irritation test (rabbit): Burns



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Subacute to chronic toxicity : Checks into the substance have so far not disclosed any investigations concerning possible teratogenic effects.
Further toxicological information

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After skin contact : Irritations
After eye contact : Irritant and caustic effects .Risk of permanent damage due to staining of the cornea. Risk of serious damage to eyes.

After long term exposure to the chemical :
After swallowing and inhalation: Irritations of mucous membranes, skin discolouration.
Further data : Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effect : Biological effects : High aquatic toxicity.
Further ecologic data : The following applies to silver compounds in general: biological effects: silver ions toxic for aquatic organisms; bacteria: *Ps.putida* toxic as from 0.006 mg/l; protozoa: *U.parduzi* toxic as from 0.1 mg/l; *Sc .quadricauda* toxic as from 0.0007 mg/l. Do not allow to enter waters, waste water, or soil.

13. DISPOSAL METHOD

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations . We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Disposal in compliance with official regulations . Handle contaminated packaging as in the same way as the substance itself . If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled .

14. TRANSPORT INFORMATION

Not subject to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xi Irritant

R- Phrases : 41 Risks of serious damage to eyes.



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S-phrases : 22-26-39 Do not breathe dusts. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice . Wear eye/ face protection.

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Water pollution class : 3 (highly polluting substance)

16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.