SILVER NITRATE AR/ACS MSDS

CAS-No.: 7761-88-8 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

EC Index-No. : 047-001-00-2 EC-No. : 231-853-9 CAS-No. : 7761-88-8 Product code : 05742

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

Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

Uses advised against

No additional information available

Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vihar, Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700

sales@labogens.com - www.Labogens.com

1.4. **Emergency telephone number**

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, H272

Category 2

Skin corrosion/irritation,

H314

Category 1

Hazardous to the aquatic H410

environment — Chronic Hazard, Category 1

Full text of H statements : see section 16

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R8 C; R34 N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :







GHS03

GHS05

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H272 - May intensify fire; oxidiser.

H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P220 - Keep/Store away from clothing and other combustible materials.

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.

P310 - Immediately call a POISON CENTER/doctor

P501 - Dispose of contents/container to hazardous or special waste collection point,

in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : SILVER NITRATE AR/ACS

CAS-No. : 7761-88-8 EC-No. : 231-853-9 EC Index-No. : 047-001-00-2

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/effects : Causes severe skin burns and eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser.

Explosion hazard : Heating may cause a fire or explosion.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a well-ventilated

place. Keep cool.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 169.87 g/mol Colour : White crystalline.

Odour : odourless.

Odour threshold : No data available

pH : 6

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 212 °C

Freezing point : No data available

Boiling point : 440 °C

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 $^{\circ}$ C : 4.4

Relative density : No data available

Density : 4.352 g/cm³

Solubility : Water: 219 g/100ml @ 200C

Log Pow : 5

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Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : The substance or mixture is classified as oxidizing with the subcategory 2.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

May cause or intensify fire; oxidiser.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 6

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 6

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

2 Diodocanicianto potentia	
SILVER NITRATE AR/ACS (7761-88-8)	
Log Pow	5

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1493 UN-No. (IMDG) : 1493 UN-No. (IATA) : 1493 UN-No. (ADN) : 1493 UN-No. (RID) : 1493

14.2. UN proper shipping name

Proper Shipping Name (ADR) : SILVER NITRATE
Proper Shipping Name (IMDG) : SILVER NITRATE
Proper Shipping Name (IATA) : Silver nitrate
Proper Shipping Name (ADN) : SILVER NITRATE
Proper Shipping Name (RID) : SILVER NITRATE

Transport document description (ADR) : UN 1493 SILVER NITRATE, 5.1, II, (E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 1493 SILVER NITRATE, 5.1, II, MARINE POLLUTANT/ENVIRONMENTALLY

HAZARDOUS

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: UN 1493 Silver nitrate, 5.1, II, ENVIRONMENTALLY HAZARDOUS Transport document description (IATA)

Transport document description (ADN) : UN 1493 SILVER NITRATE, 5.1, II, ENVIRONMENTALLY HAZARDOUS Transport document description (RID)

: UN 1493 SILVER NITRATE, 5.1, II, ENVIRONMENTALLY HAZARDOUS

Transport hazard class(es) 14.3.

ADR

Transport hazard class(es) (ADR) : 5.1 Danger labels (ADR) : 5.1





IMDG

Transport hazard class(es) (IMDG) : 5.1 Danger labels (IMDG) : 5.1





IATA

: 5.1 Transport hazard class(es) (IATA) Hazard labels (IATA) : 5.1





ADN

Transport hazard class(es) (ADN) : 5.1 Danger labels (ADN) : 5.1





RID

Transport hazard class(es) (RID) : 5.1 Danger labels (RID) : 5.1





14.4. **Packing group**

Packing group (ADR) : 11 Packing group (IMDG) : II

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Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : O2
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAV
Tank special provisions (ADR) : TU3
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V11

(ADR)

Special provisions for carriage - Bulk : VC1, VC2, AP6, AP7

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV24

: TP33

Hazard identification number (Kemler No.) : 50

Orange plates :

50 1493

Tunnel restriction code (ADR) : E EAC code : 1Y

- Transport by sea

Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : F2 : P002 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B2, B4 Tank instructions (IMDG) : T3 : TP33 Tank special provisions (IMDG) EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-Q : A Stowage category (IMDG) MFAG-No : 140

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y544

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PCA limited quantity max net quantity : 2.5kg

(IATA)

PCA packing instructions (IATA) : 558
PCA max net quantity (IATA) : 5kg
CAO packing instructions (IATA) : 562
CAO max net quantity (IATA) : 25kg
ERG code (IATA) : 5L

- Inland waterway transport

Classification code (ADN) : O2
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : O2
Limited quantities (RID) : 1kg
Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP10

Portable tank and bulk container : T3

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : SGAV
Special provisions for RID tanks (RID) : TU3
Transport category (RID) : 2
Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage – Bulk : VC1, VC2, AP6, AP7

(RID)

Special provisions for carriage - Loading, : CW24

unloading and handling (RID)

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 50

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: TP33

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SILVER NITRATE AR/ACS is not on the REACH Candidate List SILVER NITRATE AR/ACS is not on the REACH Annex XIV List

15.1.2. National regulations

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Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to

AwSV; ID No. 185)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed

: The substance is not listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.
R34	Causes burns
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R8	Contact with combustible material may cause fire
С	Corrosive
N	Dangerous for the environment
0	Oxidising

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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