

SAFETY DATA SHEET

0.1 N AgNO₃

1. Identification of the substance and of the supplier

Product identifier

Chemical name 0.1 N AgNO₃

Recommended use of the chemical and

restrictions on use

Manufacturer/ supplier details

Company name

Ya Thai Chemical Co., Ltd.
78/9 Moo 5 Takam, Bangpakong,
Chachoengsao 24130 THAILAND

Phone number 66-3857-4400

Fax 66-3857-3700

Emergency phone number

2. Hazard Identification

GHS classification of the substance/ mixture

Health hazards

Skin corrosion/ irritation Category 2

Environmental hazards

Hazardous to the aquatic environment - short term (acute)

Hazardous to the aquatic environment - long term (chronic)

Other hazard than mentioned above are "Not classified", "Classification not possible" or "Not applicable".

GHS label elements

Pictogram



Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P264 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves.

P273 Avoid release to the environment.

Response

P302+P352 IF ON SKIN: Wash with plenty water.

P332+P317 If skin irritation occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

3. Composition/ Information on Ingredients

Substance/ mixture	Mixture (liquid)		
Components		CAS No.	Concentration %
Silver nitrate		7761-88-8	1.7
Water		7732-18-5	Balance

4. First Aid Measures

Description of first aid measure

Inhalation

Remove to fresh air. Get medical attention.

Skin contact

Immediately flush skin with plenty of water, then wash with soap. Remove contaminated clothing and shoes. Wash clothing before reuse.

Eye contact

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion

Immediately drink plenty of water to induce vomiting. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed

Irritating to the eyes, skin, respiratory tract and ingestion.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Use water spray, dry chemical powder, foam or carbon dioxide.

Unsuitable extinguishing media

No information available.

Special hazards arising from the substance or mixture

Gives off irritating or toxic fumes (or gases) in a fire.

When heated to decomposition it emits toxic fumes of nitrogen oxides.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus (SCBA) for firefighting.

Keep away from heat, sources of ignition, and wear protective equipment.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

Keep unprotected persons away.

In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental precautions

Do not let product enter drains. Keep water away from release.

Stop or control the leak, if this can be done without undue risk.

Methods and materials for containment and cleaning up

Liquid form, collect for reclamation or absorb in vermiculite, dry sand, earth, or a

similar material.

For small spills, add absorbent or sand, scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and Storage

Precautions for safe handling

Use personal protective equipment as required.

Avoid contact with eyes, skin and clothing.

Wash face, hands and any exposed skin thoroughly after handling.

Worker should immediately wash the skin when it becomes contaminated.

Do not breathe gas/ fumes/ vapour/ spray.

In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in dark, dry and well-ventilated place.

8. Exposure Controls/ Personal Protection

Control parameters

Component	ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
Silver nitrate			
7761-88-8	-	-	-

Appropriate engineering controls

Use ventilation, local exhaust ventilation.

Personal protective equipment

Respiratory protectionUse local exhaust or respirator masks.

Skin protection Protective gloves.

Eye/ face protection Wear safety goggles, safety glasses.

Body protection Chemical suit, boots, aprons.

Work/ hygienic practices

Handle in accordance with good industrial hygiene and safety practice.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash face, hands and any exposed skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wash hands before breaks and at the end of work.

9. Physical and Chemical Properties

Appearance and colour Liquid, colourless

Odour Odourless
Odour threshold
PH
6.00-7.00
Melting point/ freezing point
Initial boiling point and boiling range
Flash point
Odourless
Not available
5.100 °C
Not flammable

Evaporation rate Not available Flammability Not available

Upper/ lower flammability or explosive limits Not available

Vapour pressure

Vapour density

Specific gravity

Not available
1.00-1.10

Water solubility

Partition coefficient: n-octanol/water log Pow
Auto ignition temperature

Decomposition temperature

Viscosity

Soluble in water

Not available

Not available

Not available

10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Will not occurred.

Conditions to avoid

Not applicable.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous decomposition products

When heated to decomposition it emits toxic fumes of nitrogen oxides.

11. Toxicological Information

Numerical measures of toxicity

Classification of health hazards

Acute toxicity

Acute oral toxicity Summation method:

- Silver nitrate: LD₅₀ 1,173 mg/kg (rat) ATE_{mix}: >5,000 mg/kg = Classified not possible.

Acute dermal toxicity

Acute inhalation toxicity

Not classified.

Not classified.

Skin corrosion/ irritation H315 Causes skin irritation.

Serious eye damage/ eye irritation All ingredients in this mixture are not serious eye

damage/ eye irritation effect.

Respiratory or skin sensitization All ingredients in this mixture are not respiratory or

skin sensitization effect.

Germ cell mutagenicityAll ingredients in this mixture are not germ cell

mutagenicity effect.

CarcinogenicityAll ingredients in this mixture are not

carcinogenicity effect.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	ACGIH	IARC	NTP	OSHA
Silver nitrate	Not listed	Not listed	Not listed	Not listed
7761-88-8	Not listed	Not listed	Not listed	Not listed

Reproductive toxicityAll ingredients in this mixture are not reproductive

toxicity. **Specific target organ toxicity**All ingredients in this mixture are not specific

(single exposure)

(Siligic exposure)

Specific target organ toxicity

(repeated exposure)
Aspiration hazard

target organ toxicity (repeated exposure) effect.
All ingredients in this mixture are not aspiration

target organ toxicity (single exposure) effect.

All ingredients in this mixture are not specific

hazard effect.

12. Ecological Information

Ecotoxicity

Components	Algae/ aquatic plants	Fish	Crustacea
Silver nitrate 7761-88-8	-	- Oncorhynchus mykiss (rainbow trout): LC ₅₀ 0.00148 mg/L/96hr	- Daphnia magna (water flea) LC ₅₀ : 0.0013 mg/L/48hr ^{renewal}

Acute (short-term) aquatic hazard Summation method:

aquatic life.

Long-term aquatic hazard

Persistence and degradability

Bio-accumulative potential

Mobility in soil

Other adverse effects

Not classified

Not available

Not available

Not available

Environmental effectsMay cause long lasting harmful effects to

aquatic life.

13. Disposal Consideration

Waste treatment methods

Dispose in accordance with local/ national/ international regulations.

Contaminated packaging

Dispose of as unused product.

Dispose of container in accordance with local/ national/ international regulations.

14. Transport Information

International regulation

UN number UN1760

UN proper shipping nameCorrosive liquids, n.o.s. (silver nitrate solution)

Transport hazard class 8
Packaging group | |||

Environmental hazardsNot availableTransport in bulkNot availableSpecial precautions for userNot available

15. Regulatory Information

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

Thailand

Notification of Ministry of Industry Subject: This chemical not listed on the hazardous substances B.E. 2556 substances inventory.

(2013) (Annex 5.1)

Thailand

Notification of Ministry of Labour Silver nitrate CAS 7761-88-8 (No.1271)

B.E. 2556 (2013)

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Created October 20, 2023

Reference

- 1) GHS Classification Data from NIH (National Institutes of Health) Web Site: https://pubchem.ncbi.nlm.nih.gov/
- 2) http://www.inchem.org/
- 3) https://cfpub.epa.gov/ecotox/
- 4) Thailand: Notification of Ministry of Industry Subject: List of hazardous substances B.E. 2556 (2013) (Annex 5.1)
- 5) Thailand: Notification of Ministry of Labour Subject: List of hazardous chemicals B.E. 2556 (2013)

NOTE:

This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein. We cannot quarantine that These are the only hazards which exist.