

Silver nitrate concentrate**38001-1EA**

Version 1.2

Revision Date 05/18/2022

Print Date 05/15/2023

SECTION 1. IDENTIFICATION

Product name : Silver nitrate concentrate

Number : 000000021495

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 : liquid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

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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 INGREDIENTSFormula : AgNO₃

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	>99.75 %
Silver nitrate	7761-88-8	<0.25 %

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water. First aider needs to protect himself.

Inhalation : Move to fresh air. Call a physician if irritation develops or persists.

Skin contact : Wash off immediately with plenty of water. If symptoms persist, call a physician.

Eye contact : Protect unharmed eye. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

Ingestion : Immediately give large quantities of water to drink. Call a physician immediately.

Notes to physician

Most important symptoms/effects, acute and : No information available.

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delayed
Indication of immediate : Treat symptomatically.
medical attention and
special treatment needed, if
necessary

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Dry powder
Foam
Carbon dioxide (CO₂)

Specific hazards during : Hazardous decomposition products formed under fire
firefighting conditions.
Keep away from reducing agents.
Substance/product in the dry state promotes fires.

Special protective equipment : Wear self-contained breathing apparatus and protective suit.
for firefighters No unprotected exposed skin areas.

Further information : Prevent fire extinguishing water from contaminating surface
water or the ground water system.
The product itself does not burn.
Use extinguishing measures that are appropriate to local
circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Evacuate personnel to safe areas.
protective equipment and : Wear personal protective equipment. Unprotected persons
emergency procedures must be kept away.
Avoid contact with skin, eyes and clothing.

Environmental precautions : Should not be released into the environment.
Prevent further leakage or spillage if safe to do so.

Methods and materials for : Soak up with inert absorbent material.
containment and cleaning : Do not pick up with the help of saw-dust or other combustible
up substances.
Sweep up and shovel into suitable containers for disposal.

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Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Never return unused material to storage receptacle.
Protect from contamination.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Substance/product in the dry state promotes fires.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

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.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety goggles

Hand protection : Impervious butyl rubber gloves
Gloves must be inspected prior to use.
Replace when worn.

Skin and body protection : Wear suitable protective equipment.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

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Hygiene measures : Take off all contaminated clothing immediately.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.
Keep working clothes separately.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : colourless

Odor : odourless

Odor threshold : Note: No data available

pH : Note: No data available

Melting point/range : Note: No data available

Boiling point/boiling range : Note: No data available

Flash point : Note: Not applicable

Evaporation rate : Note: No data available

Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapor pressure : Note: No data available

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Vapor density	: Note: No data available
Density	: Note: No data available
Water solubility	: Note: soluble
Partition coefficient: n-octanol/water	: Note: Not applicable
Ignition temperature	: Note: No data available
Decomposition temperature	: Note: No decomposition if used as directed.
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
Molecular weight	: 169.87 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: The product is oxidizing when dried. Corrosive in contact with metals
Conditions to avoid	: Protect from extreme heat and cold. Keep away from reducing agents.
Incompatible materials	: Strong reducing agents
Hazardous decomposition products	: Nitrous gases

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: No data available

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Note: No data available

Eye irritation : Note: No data available

Sensitisation : Note: No data available

Repeated dose toxicity : Note: No data available

Genotoxicity in vitro : Note: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other
aquatic invertebrates : Note: No data available

Toxicity to algae : Note: No data available

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Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

Further information on ecology**Ecotoxicology Assessment**

Results of PBT assessment
Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 3082
	Proper shipping name	: Environmentally hazardous substances, liquid, n.o.s.
	Class	: 9
	Packing group	: III
	Hazard Labels	: 9

IATA	UN/ID No.	: UN 3082
	Description of the goods	: Environmentally hazardous substances, liquid, n.o.s.
	Class	: 9
	Packaging group	: III
	Hazard Labels	: 9
	Packing instruction (cargo aircraft)	: 964
	Packing instruction (passenger aircraft)	: 964
	Packing instruction (passenger aircraft)	: Y964

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IMDG	UN/ID No.	: UN 3082
	Description of the goods	: Environmentally hazardous substances, liquid, n.o.s.
	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).

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

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

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Chemicals (NZIoC), as
published by ERMA New
Zealand

Taiwan Chemical : On the inventory, or in compliance with the inventory
Substance Inventory (TCSI)

National regulatory information

US. EPA CERCLA : The following component(s) of this product is/are subject to
Hazardous Substances (40 release reporting under 40 CFR 302 when release exceeds the
CFR 302) Reportable Quantity (RQ):

Reportable quantity: 1 lbs
: Silver nitrate 7761-88-8

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

SARA 313 Components : This material does not contain any chemical components with
known CAS numbers that exceed the threshold (De Minimis)
reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : No SARA Hazards

**CERCLA Reportable
Quantity** : 588 lbs

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.

SECTION 16. OTHER INFORMATION

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	HMIS III	NFPA
Health hazard	: 1	1
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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group