

HazTech Systems, Inc. SAFETY DATA SHEET

Revision number: 2 Revision date: 07/13/2015

1. IDENTIFICATION

Product name: Product code: Synonyms: CAS: RTECS # CI#: Recommended use: Uses advised against:

Company:

HazTech Systems, Inc. 4996 Gold Leaf Dr Mariposa, CA 95338 U.S.A. Telephone: 1-800-543-5487 / 1-209-966-8088 Fax: 1-209-966-8089 e-mail: sales@hazcat.com www.hazcat.com

Silver nitrate, Distilled water RE2328/RE2026 Not available 7761-88-8/7732-18-5 VW4725000/Not available Not available Laboratory chemicals, Manufacture of substances No information available

Chemical Emergencies: HazTech Systems, Inc. (8:00am - 5:00pm) PST 1-800-543-5487 Transportation Emergencies: Chemtrec 24-Hour 1-800-424-9300 (U.S.A.) 1-703-527-3887 (International)

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Oxidizing solids (Category 2), H272 Acute toxicity , Oral (Category 4), H302 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements Pictogram



Signal word	Danger
Hazard statement(s)	
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P210	Keep away from heat.
P220	Keep/Store away from clothing/ combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Product Code(s) RE2328 Silver nitrate, Distilled water

HAZARDS IDENTIFICATION 2. P301 + P312 + P330IF SWALLOWED: Cal 1 a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 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 or doctor/ physician. P363 Wash contaminated clothing before reuse. P370 + P378In case of fire: Use dry sand, dry chemical or alcohol - resistant foam for extinction. P391 Collect spillage. Store locked up. P405 P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances (mixture)				
Formula	:	AgNO ₃		
Molecular weight	:	169.87 g/mol		
CAS -No.	:	7761 -88 -8		
EC-No.	:	231 -853 -9		
Index -No.	:	047 -001 -00 -2		
Hazardous components	5			
Component			Classification	Concentration
Silver nitrate				
			Ox. Sol. 2; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H272, H302, H314, H318, H410	<= 2 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

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Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital. If swallowed
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Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Silver/silver oxides

Container explosion may occur under fire conditions.

5. FIREFIGHTING MEASURES

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. **Methods and materials for containment and cleaning up**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eves. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

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

Light sensitive.

Storage class (TRGS 510): Oxidizing hazardous materials

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Component	CAS -No.	Value	Control parameters	Basis
Silver nitrate	7761 -88 -8	TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z -1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Argyria varies		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Full contact

Material : Nitrile rubber Minimum layer thickness: 0.11 mm Break through time : 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material : Nitrile rubber Minimum layer thickness: 0.11 mm Break through time : 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method:

EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It

should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a)	Appearance	Form : liquid
		Colour : clear
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pН	No data available
e)	Melting point/freezing point	Melting point/range : 212 °C (414 °F) - dec.
f)	Initial boiling point and boiling range	440 °C (824 °F) - Decomposes on heating.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No da ta available
	flammability or	
	explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	4.350 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n - octanol/water	log Pow : 5
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 2.
Oth	ner safety information	
ъ.т	1	

No data available

10. STABILITY AND REACTIVITY

ReactivityNo data availableChemical stabilityDecomposes on exposure to light.Stable under recommended storage conditions.Possibility of hazardous reactionsNo data availableConditions to avoidLight.Incompatible materialsStrong reducing agents, Alcohols, Ammonia, Magnesium, Strong basesHazardous decomposition productsOther decomposition products - No data availableIn the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 1,173 mg/kg Remarks : Behavioral: Tetany. Cyanosis Diarrhoea Inhalation : No data available Dermal : No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation Eyes - Rabbit Result : Severe eye irritation Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as IARC: probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: 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. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available **Additional Information** RTECS : VW4725000 May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver)., Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. Liver - Irregularities - Based on Human Evidence Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

Toxicity							
Toxicity to fish	mortality NOEC - C mortality LOEC - O						
	LC50 - Leuciscus idu	mortality LOEC - Oncorhynchus mykiss (rainbow trout) $- > 0.007 \text{ mg/l} - 7.0 \text{ d}$ LC50 - Leuciscus idus (Golden orfe) $- 0.029 \text{ mg/l} - 96.0 \text{ h}$ LC50 - Oncorhynchus mykiss (rainbow trout) $- 0.006 \text{ mg/l} - 96.0 \text{ h}$					
Toxicity to daphnia and	EC50 - Daphnia mag		0.0006 mg/l				
other aquatic							
invertebrates							
Persistence and degradabi	ility						
No data available Bioaccumulative potential	1						
Bioaccumulation	Lepomis macrochirus	- 60 d					
	- 70 μg/l	004					
	Bioconcentration fact	or (BCF) : 120					
Mobility in soil							
No data available							
Results of PBT and vPvB		oty account pot to	mined (not got	ducted			
PBT/vPvB assessment not a Other adverse effects	available as chemical saf	ery assessment not re	quireu/ not cof				
	nnot be excluded in the	event of unprofessio	nal handling or	disposal. Very toxic to aquatic life.			
3. DISPOSAL CONSIDER		1	0	· · · 1			
Waste treatment methods							
Product							
Burn in a chemical incinerato							
naterial is highly flammable.							
icensed professional waste d combustible solvent and burn							
combustible solvent and buri	ii iii a chemical incinerat	ior equipped with an	atterburner and	i scrubber.			
Dispose of as unused produc	ct.						
4. TRANSPORT INFORM	MATION						
	ass : 5.1	Packing group	П				
UN number: 1493 Cla	ass : 5.1 lver nitrate	Packing group	II				
UN number: 1493 Cla Proper shipping name : Sil	lver nitrate	Packing group	II				
Proper shipping name : Sil Reportable Quantity (RQ): 1 Poison Inhalation Hazard IMDG	lver nitrate lbs : No						
UN number: 1493 Cl: Proper shipping name : Sil Reportable Quantity (RQ): 1 Poison Inhalation Hazard I MDG UN number : 1493 Cl:	lver nitrate lbs : No ass : 5.1	Packing group		EMS-No: F-A, S-Q			
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This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Revision Date 07/13/15

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.			
Acute Tox.	Acute toxicity		
Aquatic Acute	Acute aquatic toxicity		
Aquatic Chronic	Chronic aquatic toxicity		
Eye Dam.	Serious eye damage		
H272	May intensify fire; oxidiser.		
H302	Harmful if swallowed.		
H314	Causes severe skin burns and eye damage.		
H318	Causes serious eye damage.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
Ox. Sol.	Oxidizing solids		
HMIS Rating			
Health hazard :	3		
Chronic Health Hazar	d : *		
Flammability :	0		
Physical Hazard	2		
NFPA Rating			
Health hazard :	3		
Fire Hazard :	0		
Reactivity Hazard :	2		
Special hazard. I:	OX		

Revision Date: Prepared by: 07/13/2015

HazTech Systems, Inc.

This information is based on HazTech Systems, Inc.'s, 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.