

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Product identifier		
Product name	Silver Nitrate Reagent	
Product number	R-0706; R-0706-PL	
Recommended use and restrictions	To be used in accordance with manufacturer instructi manufacturer.	ons or under the direct guidance of th
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548	
CTION 2: Hazard(s) Identif	ication	
Physical hazards	Not applicable	
Health hazards	Eye damage/irritation	Category 1
	Skin corrosion/irritation	Category 2
	Specific Target Organ Toxicity – Repeat Exposure	Category 1
Environmental hazards	Not currently regulated by OSHA. For additional infor	mation, refer to section 12 of the SDS
Signal word	Danger	
Hazard statements	Causes serious eye damage. Causes skin irritation. (prolonged or repeated exposure.	Causes damage to organs through
Precautionary statements		
Prevention	Wear protective gloves/protective clothing/eye protec occur. Wash skin thoroughly after handling. Do not bu dust/fumes/gas/mists/vapors/spray. Do not eat, drink	reathe
Response	IF IN EYES: Rinse cautiously with water for several n and easy to do. Continue rinsing. Immediately call a IF ON SKIN: Wash with plenty of water. IF SKIN IRR advice/attention. Take off contaminated clothing and IF EXPOSED OR CONCERNED: Get medical advice	bhysician or poison control center. ITATION OCCURS: Get medical wash it before reuse.
Storage	Keep tightly capped. Store out of direct sunlight betw	een 36°F–85°F.
Disposal	Dispose of contents/container in accordance with loc regulations.	al/regional/national/international
Hazards not otherwise classified	Not applicable	

Mixture

me and synonyms	CAS number	% w/w
Dxide	7732-18-5	80-100
lver(I) Salt	7761-88-8	1-5
	Jxide Iver(I) Salt	

If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: Firefighting Measures

Extinguishing media Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the s Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Nitrogen oxides. Other irritating fumes and smoke.
Advice for firefighters Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Refer to section 9 of the SDS for flammability properties.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

Ventilate the area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and Storage

Personal precautions, protective equipment, and emergency procedures

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F- 85°F. Store away from incompatible materials (refer to section 10 of the SDS).

S ACGIH Threshold Limit Values		
Components	Туре	Value
Silver Nitrate (CAS 7761-88-8) as Ag	TWA	0.01 mg/m ³
S NIOSH: Pocket Guide to Chemical Hazards	5	
Components	Туре	Value
Silver Nitrate (CAS 7761-88-8) as Ag	TWA	0.01 mg/m ³
Silver Nitrate (CAS 7761-88-8) as Ag	IDLH	10 mg/m ³
S OSHA Table Z-1 Limits for Air Contaminan	ts (29 CFR 1910.1000)	
Components	Туре	Value
		0.01 mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure controls

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.
Personal protective equipment	
Eye/face protection	Wear appropriate chemical safety goggles if contact is likely to occur.
Skin protection	Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.
Body protection	Wear appropriate protective clothing if contact is likely to occur.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

normation on basic physical and	chemical properties
Physical state	Liquid
Form	Liquid
Color	Clear, colorless, or nearly colorless
Odor	Odorless
Odor threshold	No data available
рН	4.4
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	No data available
Specific gravity	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Upper Flammability Limit	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available

Solubility	Soluble in all proportions		
Partition coefficient	No data available		
(n-octanol/water)			
Viscosity	No data available		
Explosive properties	No data available		
Oxidizing properties	No data available		
CTION 10: Stability and Read	ctivity		
Reactivity	Hazardous reactions will not occur u	inder normal conditions.	
Chemical stability	Stable under recommended handlin	g and storage conditions (refer to section 7 of the SDS).	
Possibility of hazardous reactions	No dangerous reaction known unde	r conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	Do not use in areas without adequate ventilation.	
Incompatible materials	Acetylene, alcohols, ammonia, azide peroxides, powdered metals, strong	es, calcium carbide, fluorides, organic compounds, acids, and strong oxidizing agents.	
Hazardous decomposition products	No hazardous decomposition produ	cts under normal conditions.	
CTION 11: Toxicological Info	ormation		
Information on toxicological effect	ts		
Likely routes of exposure are s			
Most important		on. Symptoms may include redness and itching.	
symptoms/effects, acute and delayed		utions may be corrosive to the eyes and may cause seven toms may include stinging, tearing, redness, swelling, and	
	choking, and wheezing. Inhalation c	e respiratory irritation. Symptoms may include coughing, ould result in pulmonary edema (fluid accumulation). est pain, shortness of breath) may be delayed.	
		lips, oral cavity, upper airway, esophagus, and possibly to de abdominal pain, vomiting, burns, perforations, and	
Acute toxicity	This product is not classified as an a ingredient acute toxicity data.	n acute toxicity hazard. See below for product and individua	
Product	Species	Acute Toxicity Estimate (ATE)	
Silver Nitrate Reagent (CAS Mixtu			
Acute	- /		
Dermal			
LD ₅₀	Rat	No data available	
Inhalation			
LC ₅₀	Rat	No data available	
Oral			
LD ₅₀	Rat	>2000 mg/kg	
Components	Species	Acute Toxicity Data	
Silver Nitrate (7761-88-8) Acute			
Dermal			
LD50	Rat	No data available	
Inhalation			
LC ₅₀	Rat	No data available	
Oral			
	Rat	1173 mg/kg	
Skin corrosion/irritation	May cause irritation.		
Serious eye damage/eye irritation	,		
Respiratory sensitization	No data available		
Skin sensitization	No data available		

Germ cell mutagenicity	No data available
Carcinogenicity	
IARC Monographs. Overall Ev	aluation of Carcinogenicity
Not regulated	
OSHA Specifically Regulated	Substances (29 CFR 1910.1001-1096)
Not regulated	
US National Toxicology Progr	am (NTP) Report on Carcinogens
Not regulated	
Reproductive toxicity	No data available
Specific target organ toxicity (single exposure)	No data available
Specific target organ toxicity (repeated exposure)	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	No data available
SECTION 12: Ecological Infor	mation
Ecotoxicity	This product is not classified as environmentally hazardous.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	Large or frequent spills can have a harmful or damaging effect on the environment.
SECTION 13: Disposal Consid	lerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport Information

DOT	
UN number	3264
UN Proper shipping name	Corrosive liquid, acidic, inorganic, N.O.S. (Silver Nitrate Solution)
Reportable Quantity	1 lb, Silver Nitrate
Class (Subsidiary risk)	8
Label(s)	8
Packing group	II
Special provisions	386, B2, IB2, T11, TP2, TP27
Packaging exceptions	154
Packaging, non-bulk	202
ΙΑΤΑ	
UN number	3264
UN Proper shipping name	Corrosive liquid, acidic, inorganic, N.O.S. (Silver Nitrate Solution)
Class (Subsidiary risk)	8
Packing group	II
Special provisions	A803
IMDG	
UN number	3264
UN Proper shipping name	Corrosive liquid, acidic, inorganic, N.O.S. (Silver Nitrate Solution)
Class (Subsidiary risk)	8
Packing group	II
Environmental hazards	
Marine pollutant	No
Special provisions	274
EmS	F-A, S-B

Special precautions for user

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

DOT hazard pictograms



IATA; IMDG hazard pictograms

SECTION 15: Regulatory Information

CTION 15: Regulatory Information	on	
US federal regulations		
CERCLA Hazardous Substance (40	CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Silver Nitrate	7761-88-8	1 lb
SARA 302 Extremely Hazardous Sul	bstance (40 CFR 35	5 Appendices A / B)
Not regulated		
SARA 304 Emergency Release Notif	ication	
Not regulated		
SARA 311/312 Hazardous Chemical		
Chemical name	CAS number	
Silver Nitrate	7761-88-8	
SARA 313 (TRI reporting)		
Chemical name	CAS number	
Silver Nitrate	7761-88-8	
TSCA Section 8(b) Chemical Invento	ory	
All components are on the U.S. EPA	•	t.
TSCA Section 12(b) Export Notificat	,	
Not regulated		
5		
Other federal regulations		
Clean Air Act (CAA) Section 112 Ha	zardous Air Polluta	nts (HAPs)
Not regulated		
Clean Air Act (CAA) Section 112(r) A	Accidental Release	Prevention (40 CFR 68.130)
Not regulated		
Clean Water Act, Toxic and Priority	Pollutants (40 CFR	401.15 and CFR 423, Appendix A)
Chemical name	CAS number	
Silver Nitrate	7761-88-8	
Safe Drinking Water Act (SDWA)		
Chemical name	CAS number	
Silver Nitrate	7761-88-8	
US state regulations		
California Safe Drinking Water and	Toxic Enforcement	Act of 1986 (California Proposition 65
Not regulated		
Massachusetts Right-to-Know Act		
_	CAS number	
Silver Nitrate	7761-88-8	
Chemical name	CAS number	_

New Jersey Worker and Comn	nunity Right-to-Know Act
Chemical name	CAS number
Silver Nitrate	7761-88-8
Pennsylvania Worker and Con	nmunity Right-to-Know Act
Chemical name	CAS number
Silver Nitrate	7761-88-8
Rhode Island Right-to-Know A	ct
Chemical name	CAS number
Silver Nitrate	7761-88-8
ECTION 16: Other Informatio	n
NFPA Rating	
Health hazard	1
Fire hazard	0
Reactivity	0
Specific	N/A

Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

License granted to make unlimited paper copies for internal use only. This Safety Data Sheet may not be altered in any way without the expressed knowledge and permission of Taylor Technologies, Inc. The information contained in this sheet is based on lab experience and the most current data available.

Issue date:

May 2015

Last revisions

July 2019