

SAFETY DATA SHEET

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

Revision: 11/17/2021

SECTION 1: Identification

Product identifier

Product name Chromate Indicator
Product number R-0630; R-0630-PL

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Technologies, Inc.

31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

Emergency phone number

CHEMTREC, United States 1-800-424-9300 – 24-hour service CHEMTREC, International +1 703-741-5970 – 24-hour service

SECTION 2: Hazard(s) identification

Physical hazards Not applicable

Health hazardsEye damage/irritationCategory 2Skin corrosion/irritationCategory 2CarcinogenicityCategory 1BGerm cell mutagenicityCategory 1B

Skin sensitization Category 1

Environmental hazards Acute (short-term) aquatic toxicity hazard Category 1

Chronic (long-term) aquatic toxicity hazard Category 1

Label elements

Hazard pictograms



Signal word Danger

Hazard statements Causes skin irritation. Causes serious eye irritation. May cause cancer. May cause genetic

defects. May cause an allergic skin reaction. Very toxic to aquatic life, with long-lasting effects.

Precautionary statements

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wash skin thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection if contact is likely to occur. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the

workplace. Avoid release into the environment.

Response IF ON SKIN: Wash with plenty of water.

IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing.

IF EYE IRRITATION PERSISTS: Get medical advice/attention. IF EXPOSED OR CONCERNED: Get medical advice/attention.

Collect spillage.

Storage Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations

Hazards not otherwise classified Not applicable

SECTION 3: Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Potassium Chromate	Dipotassium chromate	7789-00-6	5-10

SECTION 4: First-aid measures

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

Direct skin or eye contact may cause serious irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Skin contact may cause allergic skin reaction, dermatitis or rash. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. This product contains material that may be carcinogenic or mutagenic to humans.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure. Refer to section 7 for precautions for safe handling.

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

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity May be corrosive to metals.

Hazardous combustion products Chromium oxides, potassium oxides. During fire, gases hazardous to health may be formed.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

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 dust or mists. 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 large 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

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mists. 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

Store locked up. 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).

SECTION 8: Exposure controls/personal protection

Potassium chromate (CAS 7789-00-6) as Cr (VI)

Occupational exposure limits

US ACGIH Threshold Limit Values

Components	Туре	Value	
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.0002 mg/m^3	
Potassium chromate (CAS 7789-00-6) as Cr (VI)	STEL	0.0005 mg/m ³	
US NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.0002 mg/m ³	
US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)			
Components	Туре	Value	
Potassium chromate (CAS 7789-00-6) as Cr (VI)	TWA	0.005 mg/m^3	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Potassium chromate (CAS 7789-00-6) as Cr (VI)	10 μg/L	Total chromium	Urine	Increase during shift
Components	Value	Determinant	Specimen	Sampling Time
		Dotorminant	Фросинси	oumpring rime

Ceiling

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.

0.1 mg/m³

this produc

Personal protective equipment

Eye/face protection Wear appropriate safety glasses with side shields (or 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.

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

Physical state Liquid
Form Liquid
Color Light yellow
Odor Odorless

Odor threshold No data available

pH 9

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 No data available Specific gravity 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 No data available Vapor density 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

SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions of use, storage, and transport. **Chemical stability** Stable under recommended handling and storage conditions (refer to section 7 of the SDS).

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Strong oxidizing agents. Strong reducing agents. Combustibles, organic materials, powdered

metals.

Hazardous decomposition

products

No hazardous decomposition products under normal conditions.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation Avoid inhalation of this product. Use in a well-ventilated area.

Skin contact Protect exposed skin from contact. Use caution to avoid splashes.

Eye contact Avoid close eye contact; Use caution to avoid splashes. Wear eye protection.

Ingestion Do not ingest. Avoid accidental ingestion by observing good hygiene practices. Wash hands

thoroughly after handling this product.

Symptoms related to the physical, chemical, and toxicological characteristics

Direct skin or eye contact may cause serious irritation. Skin contact may cause allergic skin reaction, dermatitis or rash. This product contains material that may be carcinogenic or mutagenic to humans, based on sufficient evidence of carcinogenicity in humans. May cause

heritable genetic damage.

Refer to section 4 of the SDS for most important symptoms and effects.

Acute toxicityThis product is not classified as an acute toxicity hazard. Acute toxicity estimate (ATE) has

been calculated based on chapter 3 of GHS. 0% of the mixture consists of ingredient(s) with

unknown acute toxicity.

Product acute toxicity estimate (ATE)

ATEmix (Oral) > 2500 mg/kg
ATEmix (Dermal) No data available
ATEmix (Inhalation) No data available

Component(s) Species Acute toxicity data

Potassium Chromate (CAS 7789-00-6)

LD50 (Oral) Mouse 180 mg/kg (source: vendor)

LD50 (Dermal)

Rabbit

No data available

LC50 (Inhalation)

Rat

No data available

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitization No data available

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium(VI) Compounds, Group 1; Carcinogenic to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Chromium(VI) Compounds; Cancer

US National Toxicology Program (NTP) Report on Carcinogens

Chromium(VI) Compounds, Known to be a human carcinogens

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard No data available

SECTION 12: Ecological information

Ecotoxicity Very toxic to aquatic life, with long-lasting effects.

Potassium Chromate (CAS 7789-00-6)

EC50 Crustacea (Water flea) 0.024 mg/L, 48 hours (source: vendor)
LC50 Fish (Sheepshead minnow) 23 – 27 mg/L, 96 hours (source: vendor)

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

No data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

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 3082

UN Proper shipping name Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)

Reportable Quantity 10lbs, Potassium chromate

Class (Subsidiary risk) 9
Label(s) 9
Packing group III

Special provisions 8, 146, 173, 335, IB3, T4, TP1, TP29

Packaging exceptions 155 Packaging, non-bulk 203

IATA

UN number 3082

UN Proper shipping name Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)

Class (Subsidiary risk) 9
Packing group III

Special provisions A97, A158, A197

IMDG

UN number 3082

UN Proper shipping name Environmentally hazardous substances, liquid, N.O.S. (Potassium chromate)

Class (Subsidiary risk) 9
Packing group III

Environmental hazards

Marine pollutant Yes

Special provisions 274, 335, 969 EmS F-A, S-F

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

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

This substance/mixture is not intended to be transported in bulk.

DOT hazard pictograms



IATA; IMDG hazard pictograms

SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Potassium Chromate 7789-00-6 10 lbs

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Chemical name CAS number

Potassium Chromate 7789-00-6

SARA 313 (TRI reporting)

Chemical name CAS number

Potassium Chromate 7789-00-6

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical name CAS number

Potassium Chromate 7789-00-6

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Chemical name CAS number

Potassium Chromate 7789-00-6

Clean Air Act (CAA) Section 112(r) 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 Potassium Chromate 7789-00-6

Safe Drinking Water Act (SDWA)

Chemical name **CAS** number

7789-00-6 Potassium Chromate

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Chemical name CAS number Potassium Chromate 7789-00-6

WARNING: This product can expose you to Potassium chromate (hexavalent chromium compound), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Massachusetts Right-to-Know Act

Chemical name CAS number Potassium Chromate 7789-00-6 **New Jersey Worker and Community Right-to-Know Act Chemical name CAS** number Potassium Chromate 7789-00-6 Pennsylvania Worker and Community Right-to-Know Act **Chemical name CAS** number Potassium Chromate 7789-00-6

Rhode Island Right-to-Know Act

Chemical name CAS number

Potassium Chromate 7789-00-6

SECTION 16: Other information

NFPA Rating

Health hazard 3 0 Fire hazard 0 Reactivity 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.

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Issue date:

May 2015

Revision date:

11/17/2021

Revision information:

This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.

Identification: Emergency response

Hazard identification: Classification

First-aid: Most important symptoms and effects, both acute and delayed Toxicological Information: Information on likely routes of exposure

Supersedes revision dated January 2018.



SAFETY DATA SHEET

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

Revision: 11/11/2021

SECTION 1: Identification

Product identifier

restrictions

Product name Silver Nitrate Reagent

Product number R-0718

Recommended use and

Water analysis. To be used in accordance with manufacturer instructions or under the direct

guidance of the manufacturer.

Manufacturer Taylor Technologies, Inc.

31 Loveton Circle Sparks, MD 21152

Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST

Emergency phone number

CHEMTREC, United States 1-800-424-9300 – 24-hour service CHEMTREC, International +1 703-741-5970 – 24-hour service

SECTION 2: Hazard(s) Identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1BEnvironmental hazardsAcute (short-term) aquatic toxicity hazardCategory 1

Chronic (long-term) aquatic toxicity hazard

Category 1

Category 1

Environmental hazards

Label elements

Hazard pictograms

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.



Signal word Danger

Hazard statements Causes severe skin burns and serious eye damage. May be corrosive to metals. Very toxic to

aquatic life with long lasting effects.

Precautionary statements

Prevention Do not breathe dust or mists. Wash skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection if contact is likely to occur. Keep only

in original container. Avoid release into the environment.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing. Immediately call a physician or poison control center.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call

a physician or poison control center.

Absorb spillage to prevent material damage. Collect spillage.

Storage Store locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. Keep

tightly capped. Store out of direct sunlight between 36°F-85°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

Supplemental information CAUTION: Protect skin and work surface. Chemical may stain.

SDS US

SECTION 3: Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Silver nitrate	Nitric acid silver(I) salt	7761-88-8	10-20

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First-Aid Measures

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. Give 1-2 glasses of water. 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

Direct skin or eye contact may cause corrosive burns. Symptoms may include pain, redness, or swelling. Scarring or permanent damage, including blindness, could result. Contact may produce temporary discoloration of the skin. Inhalation may cause severe respiratory irritation, such as coughing and wheezing. Inhalation could result in pulmonary edema, symptoms—chest pain, shortness of breath—may be delayed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and bleeding.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

Indication of any immediate medical attention and special treatment needed

Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

General information

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

SECTION 5: Firefighting Measures

Extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity May be corrosive to metals.

Hazardous combustion products Nitrogen oxides. During fire, gases hazardous to health may be formed.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

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 dust or mists. 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 large 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

Do not handle until all safety precautions have been read and understood. Do not breathe dust or mists. 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

Store locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. 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). Keep only in original container.

SECTION 8: Exposure Controls/Personal Protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Components	Type	Value	
Silver nitrate (CAS 7761-88-8) as Ag	TWA	0.01 mg/m^3	
JS NIOSH: Pocket Guide to Chemical Hazards			
Components	Type	Value	

Components	Type	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

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Silver nitrate (CAS 7761-88-8) as Ag	TWA	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 safety glasses with side shields (or 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

Physical state Liquid Form Liquid

Color Clear, colorless

Odor Odorless

Odor threshold No data available

pH 3-5

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 No data available Relative density Solubility Miscible with water Partition coefficient No data available

(n-octanol/water)

Viscosity No data available Explosive properties Not explosive

Oxidizing properties

SECTION 10: Stability and Reactivity

Reactivity May be corrosive to metals.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS).

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials. Do not use in areas without adequate ventilation.

Temperature extremes. Store away from combustible materials.

Incompatible materials Strong oxidizing materials, strong acids. Acetylene, alcohols, ammonia, magnesium, metals,

sulfur.

Hazardous decomposition

products

No hazardous decomposition products known.

SECTION 11: Toxicological Information

Information on likely routes of exposure

Inhalation Avoid inhalation of this product. Use in a well-ventilated area.

Skin contact Protect exposed skin from contact. Use caution to avoid splashes.

Eye contact Avoid close eye contact; use caution to avoid splashes. Wear eye protection.

Ingestion Do not ingest. Avoid accidental ingestion by observing good hygiene practices. Wash hands

thoroughly after handling this product.

Symptoms related to the physical, chemical, and toxicological characteristics

Corrosive skin/eye damage may occur. Contact may produce temporary discoloration of the

skin. Refer to section 4 of the SDS for most important symptoms and effects.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Acute toxicityThis product is not classified as an acute oral toxicity hazard. Acute toxicity estimate (ATE) has

been calculated based on chapter 3 of GHS. 0% of the mixture consists of ingredient(s) with

unknown acute oral toxicity.

Product acute toxicity estimate (ATE)

ATEmix (Oral) > 2500 mg/kg
ATEmix (Dermal) No data available
ATEmix (Inhalation) No data available

Component(s) **Species** Acute toxicity data

Silver nitrate (CAS 7761-88-8)

LD50 (Oral) Rat >2000 mg/kg (Source: ECHA)

LD50 (Dermal) Rabbit No data available LC50 (Inhalation) Rat No data available

Skin corrosion/irritation Causes severe skin burns. Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitization No data available Skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity May cause cancer

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not listed

Reproductive toxicity No data available Specific target organ toxicity No data available (single exposure)

Specific target organ toxicity

(repeated exposure)

No data available Aspiration hazard

SECTION 12: Ecological Information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

No data available

Silver nitrate (CAS 7761-88-8)

EC50 Aquatic invertebrates 0.00022 mg/L, 48 hours (ECHA) LC50 Fish 0.0012 mg/L, 96 hours (ECHA)

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 Considerations

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)

1lb, Silver nitrate Reportable Quantity

Class (Subsidiary risk) 8 Label(s) 8 Packing group

Special provisions 386, B2, IB2, T11, TP2, TP27

Packaging exceptions 154 Packaging, non-bulk 202

IATA

3264 **UN** number

UN Proper shipping name Corrosive liquid, acidic, inorganic, N.O.S. (Silver nitrate solution) Class (Subsidiary risk) 8
Packing group ||

Special provisions A3, 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 || |

Environmental hazards

Marine pollutant Yes
Special provisions 274
FmS F-A S-I

EmS F-A, S-B Special precautions for user Read saf

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

the IBC Code

Read safety instructions, SDS, and emergency procedures before handling. This substance/mixture is not intended to be transported in bulk.

This substance, mixture is not interlude to be transported in a

DOT hazard pictograms



IATA; IMDG hazard pictograms



SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Chemical name CAS number Reportable Quantity

Silver nitrate 7761-88-8 1

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Chemical nameCAS numberSilver nitrate7761-88-8

SARA 313 (TRI reporting)

Chemical name CAS number

Silver nitrate 7761-88-8

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) 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 nameCAS numberSilver nitrate7761-88-8

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

Massachusetts Right-to-Know Act

Chemical nameCAS numberSilver nitrate7761-88-8

New Jersey Worker and Community Right-to-Know Act

Chemical nameCAS numberSilver nitrate7761-88-8

Pennsylvania Worker and Community Right-to-Know Act

Chemical nameCAS numberSilver nitrate7761-88-8

Rhode Island Right-to-Know Act

Chemical name CAS number

Silver nitrate 7761-88-8

SECTION 16: Other Information

NFPA Rating

Health hazard 3
Fire hazard 0
Reactivity 1
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.

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Revision date:

11/11/2021

Revision information:

This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.

Identification: Emergency response Hazard identification: Classification

First-aid: Most important symptoms and effects, both acute and delayed Toxicological Information: Information on likely routes of exposure

Supersedes revision dated April 2018.