JAIL

SAFETY DATA SHEET

Page E1 of E2

Section 1

Identification

"Cutting edge science for the classroom"

By Aldon 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

POTASSIUM CHROMATE, 1 MOLAR SOLUTION Product Synonyms Potassium Chromate, Water Solution Section 2 Hazards identification Signal word: DANGER Precautionary statement: Pictograms: GHS07 / GHS08 / GHS09 P201: Obtain special instructions before use Target organs: Respiratory system, Liver, Kidneys, Blood P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing mist/vapours/spray. P264: Wash hands thoroughly after handling. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. **GHS Classification:** P302+P352: IF ON SKIN: Wash with plenty of water and soap Skin irritation (Category 2) P333+P313: If skin irritation or rash occurs: Get medical attention. Skin sensitization (Category 1) P362+P364: Take off contaminated clothing and wash it before reuse. Eye irritation (Category 2) P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove Mutagenicity (Category 1B) contact lenses, if present and easy to do. Continue rinsing. Carcinogenicity (Category 1B) P337+P313: If eye irritation persists: Get medical attention. Aquatic toxicity, acute (Category 1) P391: Collect spillage. Aquatic toxicity, chronic (Category 1) P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in GHS Label information: Hazard statement: accordance with local/regional/national regulations. H315: Causes skin irritation H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H340: May cause genetic defects. H350: May cause cancer. H410: Very toxic to aquatic life with long lasting effects. Hazards not otherwise classified: Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Potassium chromate		7732-18-5 7789-00-6	80.6% 19.4%	231-791-2 232-140-5	
Section 4	First aid measures				

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale mist/vapours/spray. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal prote	ection		
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Chromium(VI) inorganic compounds	TWA: 0.05 mg/m ³ (A1) as Cr	TWA: 0.005 mg/m ³ as Cr(VI)	TWA: 0.001 mg/m ³ as Cr

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical and chemical pr	operties	
Appearance: Liquid. Clear yellow. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability and reactivity		
Chemical stability: Stable	Hazardous polymerization: Will not occur.	

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatible materials: Reducing agents. Most organic substances, bromides, iodides, chlorides, hypophosphites, sulfites, sulfites, sulfides. Combustible materials, oxidizable materials.

Hazardous decomposition products: Potassium oxides.

Section 11 Toxicological informatio

ERG: Emergency Response Guidebook.

Form 06/2015

Section 11	Toxicological infor	nation						
Acute toxicity: O Skin corrosion/irr Serious eye dama Respiratory or ski Germ cell mutage Carcinogenity: D NTP: Known to be IARC classified: G OSHA: Data not av CA Prop 65: M WA reproductive harm. Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Inhalati Ingestion: Causes skin Eyes: Contact with Signs and sympto found to be mutage	ral-mouse LD50: 180 mg/l itation: Data not availabl ge/irritation: Data not availabl ge/irritation: Data not availabl a homan carcinogen. [Pot roup 1: Carcinogenic to hu railable. RNING! : This product ca icity: Data not available sure: Data not available sure: Data not available ffects: on may cause burning sei n causes nausea, vomitin irritation. May cause an a e yeys may cause serious oms of exposure: Risk o	g [Potassium e railable t available d assium chron mans. [Potas n expose you le sation, sore t g, abdominal illergic skin re irritation. f cancer depe nalian cells, ir y. Exercise a 0000 [Potassi	hate] sium chrom a chemical, hroat, coug pain, burnin action. nds on leve icluding tho ippropriate	, Chromium [hexavale h, wheezing, labored g sensation, diarrhea l and duration of expo se of the Chinese har procedures to minimiz	breathing. shock or collapse. sure. Chromium co nster. Recent studi	ompounds in the	e form of chroma	fornia to cause cancer and tes and dichromates have been ing cancer among long-term
	•	.1011						
Toxicity to algae: Persistence and d Mobility in soil: N	a and other aquatic inve No data available legradability: No data av	ailable I	Bioaccumu PBT and vF	ilative potential: No PvB assessment: No	o data available	or disposal.		
Section 13	Disposal considera	tions						
	uidelines are intended f be different. Dispose of							ontainer. State and/or local mical disposal agency.
Section 14	Transport information	ion						
UN/NA number: Hazard class: N Exceptions: No	lot applicable ot applicable	Packing g 2020 ERG	roup: No	ot Regulated ot applicable Not applicable	Reportable Qu	antity: Yes	Ма	rrine pollutant: No
Section 15	Regulatory informa							
	red to be listed if the CAS nur	nber for the anh	,			501	NEOL	
Compo	nent		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium chromat	te		Listed	10 lbs (4.54 kg)	D001, D007	Listed	Not listed	▲ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Section 16	Other information							
dent determinations o	f suitability and completeness gency for Research on Cance	of information	from all sourc	ces to assure proper use	of these materials and	the safety and h	ealth of employees	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,

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Section 1

Identification

by Aldon INNOVATING SCIENCE

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For laboratory and industrial use only. Not for drug, food or household use.

Product	SILVER NITRATE, 0.1 MOLAR (0.1 NORMAL) SOLUTION	
Synonyms	Silver(I) Nitrate, Water Solution / Silver Nitrate, 0.1M (0.1N) Solution	
Section 2	Hazards identification	
Pictograms Target orga GHS Class Skin irritatio Eye irritation Aquatic Acu GHS Label H315: Caus H319: Caus	d: WARNING s: GHS07 / GHS09 ans: Kidneys, Liver ification: n (Category 2) n (Category 2A) ite (Category 1) information: Hazard statement: ses skin irritation. ses serious eye irritation. toxic to aquatic life.	 Precautionary statement(s): P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P391: Collect spillage. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Silver nitrate		7732-18-5 7761-88-8	98.3% 1.7%	231-791-2 231-853-9	
Section 4	First aid measures				

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CONTACT CAUSES SEVERE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CONTACT CAUSES IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Silver, soluble compounds, as Ag	TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

approved respirato							
Section 9	Physical and chemic	cal properties					
	teristic odor. Data not available. able. nt: Approximately 0°C (32°F) (wa roximately 100°C (212°F) (wa	Flammability (Explosion limi Vapor pressur Vapor density rer) Relative density	ate (Water = 1): <1 (solid/gas): Data not its: Lower / Upper: I re (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App : Complete in water.	Data not available r)	Auto-ignit Decompo Viscosity: Molecular		: Data not available Ire: Data not available. ble. re
Section 10	Stability and reactive	ity					
Chemical stability Conditions to avo	r: Stable id: Excessive temperature		ous polymerization: tion.	Will not occur.			
Incompatible mate	erials: Combustible materi	als, reducing agents, or	ganic substances, stro	ong basis and alkalis			
Hazardous decom	position products: Nitrog	gen oxides.					
Section 11	Toxicological inform	nation					
IARC: No compone OSHA: No compon Ca Prop 65: This p Reproductive toxi	nt of this product present at ent of this product present a nent of this product present roduct does not contain any	at levels greater than or at levels greater than or	equal to 0.1% is ident r equal to 0.1% is iden	ified as probable, po ntified as a carcinoge	ssible or confi n or potential	rmed human card carcinogen by OS	0,
STOT-repeated ex Aspiration hazard Potential health ei Inhalation: Repeat Ingestion: May be Skin: Contact with Eyes: Contact with Signs and symptot thoroughly investig	bure: Data not available cposure: Data not available ffects: ted inhalation may produce harmful by ingestion. skin can produce irritation. n eyes may cause severe i pors of exposure: See Pol lated. Specific data is not a	varying degree of respi irritaiton. tential health effects abo vailable. Exercise appr	ove. To the best of ou	r knowledge the che		I and toxicologica	al properties have not been
STOT-repeated ex Aspiration hazard Potential health ei Inhalation: Repeat Ingestion: May be Skin: Contact with Eyes: Contact with Signs and symptot thoroughly investig	bure: Data not available cosure: Data not available ffects: ted inhalation may produce harmful by ingestion. skin can produce irritation. n eyes may cause severe i coms of exposure: See Pol	varying degree of respi irritaiton. tential health effects abo ivailable. Exercise appr 5000 [Silver nitrate]	ove. To the best of ou	r knowledge the che		I and toxicologica	al properties have not been
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ERG: Emergency Response Guidebook.

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