10868.

SAFETY DATA SHEET

NE 3007/ GENERAL STORAGE CODE GREEN

SDS No.:	AA0145
Section 1	Identification

Page E1 of E2

Innovating Science[®] by Aldon Corporation "cutting edge science for the classroom"

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.

Product	ALUMINUM METAL					
Synonyms	Aluminum ; Aluminum Metal					
Section 2	Hazards identification					
to the Glob Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label	Ince or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of d: Not classified rs: Not classified information: Hazard statement(s): Not classified ary statement(s): Not classified	Do not inhale protective glo	ary information: dust or furnes. Do not get in eyes, on skin, or on clothing. Wear oves/protective clothing/eye protection/face protection. Wash hands ter handling. Get medical attention if you feel unwell.			
Health haza	ot otherwise classified: rds not otherwise classified (HHNOC) - Combustible dust					
Health haza Physical haz	rds not otherwise classified (HHNOC) - Combustible dust ards not otherwise classified (PHNOC) - Not Known					
Health haza	rds not otherwise classified (HHNOC) - Combustible dust ards not otherwise classified (PHNOC) - Not Known Composition / Information on ingredients	*	EINECS			

Section 4 First aid measures

INGESTION: 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: 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: Remove contaminated clothing. Flush thoroughly with mild scap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Sand, dry chemical, or CO₂ should be used on surrounding fire. Do NOT use water on fire where molten metal is present. Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Molten metals produce fume, vapor and/or dust that may be toxic and/or a respiratory irritant. Metal reacts with oxidizing agents. Reacts with some acids and caustic solutions to produce hydrogen. Molten aluminum may explode on contact with water. It may also react violently with rust, certain metal oxides (e.g. oxides of copper, iron and lead) and nitrates (e.g. ammonium nitrate and fertilizers containing ammonium nitrate).

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: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

adequate ventilation.		and and family and such	and a standard on a solid by a los a solid	ele Veen containe	tightly closed	Koon out of res	ch of children Use with
Handling: Use with a and wash clothing be	. Wash thoroughly after handling adequate ventilation. Avoid cont	1.					ach of children. Use with bughly after handling. Remov
Storage: Store in a d	cool, dry, well-ventilated area aw	ay from incompat	ible substances.				
Section 8	Exposure controls / perso	nal protection					
Exposure Limits:	Chemical Name		ACGIH (TLV)		OSHA (PEL)	· · · · · · · · · · · · · · · · · · ·	NIOSH (REL)
	Aluminum, metal and insoluble cor				/m ³ Respirable		4: 5 mg/m ³ Respirable fractio
should wear safety g	bls: Facilities storing or utilizing the glasses, goggles, or faceshield, la tion: None should be needed in	ab coat or apron,	appropriate protective	gloves. Use adequa	ate ventilation t	o keep airborne	concentrations low.
approved respirator.		normal laboratory	rianding at room tem	peratores. In dusty t			
Section 9	Physical and chemical pro	operties	RECEIPTING H	and the second second	11/05/0	1. 1. 2. 4. 1. 1. 1.	Martin States
Odor: No odor. Odor threshold: Di pH: Data not availa	ble. point: 660°C (1220°F) a not available	Flammability (Explosion limi Vapor pressur Vapor density	ate (= 1): Not applica solid/gas): Not applic tts: Lower / Upper: N e (mm Hg): Data not a (Air = 1): 0.95 - 0.113 ty (Specific gravity): [: Insoluble	able ot applicable available Ib/in ³	Auto-Ignitic Decomposi Viscosity: Molecular f	Data not availab	: Not applicable re: Data not available.
Section 10	Stability and reactivity	ATT SALVAS					
Incompatibilities w Hazardous decomp	d: Excessive temperatures and ith other materials: Strong oxid position products: Reacts with	dizers, mineral ac				r.	
Section 11	Toxicological information	and a start of	and the second second	21	S. 1. 1. 1. 1. 1	and the F	lite and the
Germ cell mutagen Carcinogenity: Da NTP: No componen IARC: No componer OSHA: No componer Ca Prop 65: This pro	t of this product present at levels nt of this product present at level ant of this product present at leve oduct does not contain any chem	greater than or e s greater than or	equal to 0.1% is identif requal to 0.1% is identi	ied as probable, pos ified as a carcinoger	ssible or confirm n or potential ca	ned human carc arcinogen by OS	
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

Revision Date: September 10, 2020

Supercedes: September 30, 2019

Section 1

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Identification				

Innovating Science® by Aldon Corporation "cutting edge science for the classroom" 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 Page Et of E2

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

Product	PELLITIZED ACTIVATED CARBO)N		
Synonyms	None			
Section 2	Hazards Identification		and the second second	第45章 · · · · · · · · · · · · · · · · · · ·
Signal word Pictograms: Target organ Construction STOT (Catege GHS Label I H320: Cause H335: May construction Hazards not Health hazard	ns: Respiratory system, Eyes		P271: Use onl P280: Wear pr P305+P340: III breathing. P305+P351+F contact lenses P312: Call a P P403+P233: S P405: Store lo P501: Dispose accordance with Note 1: Under have been ide according to th "self-heating s of Tests and C Heating Subst not meet the d class, and ther	ands thoroughly after handling. y outdoors or in a well-ventilated area. rotective gloves/protective clothing/eye protection/face protection. F INHALED: Remove person to fresh air and keep comfortable for v338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove b, if present and easy to do. Continue rinsing. OISON CENTER or doctor if you feel unwell. Store in a well-ventilated place. Keep container tightly closed.
Section 3	Composition / informa	tion on ingredients		
Chemical Nam	16	CAS #	%	EINECS
Carbon		7440-44-0	100%	231-153-3

Section 4 First aid measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting unless directed to do so by medical personnel.

INHALATION: MAY CAUSE RESPIRATORY IRRITATION. Remove person to fresh air. If not breathing, administer CPR or artifical respiration. Get Immediate medical attention.

EYE CONTACT: CAUSES SERIOUS EYE DAMAGE. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. If skin reddening or irritation develops, seek medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: In case of fire, flood with plenty of water.

Protective Actions for Fire-fighters: Firefighters should wear full protective gear.

Specific Hazards: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, etc. may result in fire,

Section 6 Accidental release measures

Personal Precautions: Use proper personal protective equipment as indicated in Section 8. Avoid contact with the skin and eyes.

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

Containment and Cleanup: Remove all sources of ignition. Shovel or sweep up and place in closed container for proper disposal. Wash spill area with scap and water.

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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. Do not inhale dusts. Use with adequate ventilation. Wet activated carbon removes oxygen from air causing severe hazard to workers inside carbon bessels or confined space. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Protect containers from physical damage. Store in dry, cool, well-ventilated area.

Section 8	Exposure controls / personal protection			ALL STREET AND AND A
	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	None established	None established	None established	None established

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

Section 9	Physical and che					Malunt Dat	ast sucilable
H: Data not avai	ailable. Data not available. able I point: Data not availat ta not available	Flammability Explosion li Vapor press ble Vapor densi Relative den	rate (=1): Data not a (solid/gas): Data not mits: Lower / Upper: U ure (mm Hg): Data not ty (Air = 1): Data not a slty (Specific gravity): s): Data not available.	available. Data not available available vailable	Auto-ignitio Decomposit Viscosity: 1 Molecular fe		Data not available e: Data not available e.
Section 10	Stability and read	ctivity	A STATE OF A STRATE	Hanness from			
Conditions to ave	erials: Strong oxidizers	conditions and reducing agents su arbon monoxide may be	ch as ozone, liquid oxyg		l not occur.		
Section 11	Toxicological infe	ormation		discussion of		25451	
IARC: No compor OSHA: No compor Ca Prop 65: This I Reproductive too STOT-single exp STOT-repeated e Aspiration hazar Potential health Inhalation: Materi Ingestion: May be Skin: May cause Eyes: May cause	ent of this product present ent of this product present product does not contain cicity: Not classified osure: May cause respi xposure: Not classified effects: al may be irritating to must harmful if swallowed, skin irritation. eye irritation.		or equal to 0.1% is iden or equal to 0.1% is iden the State of California I pper respiratory tract. M	tified as probable, p ntified as a carcinog to cause cancer or n day be harmful if inh	ossible or confirr len or potential c eproductive toxic aled.	med human carc arcinogen by OS sity.	HA.
Signs and sympo	Ecological inform	Constant of the second second	a, the chemical, physical	and toxicological pi	Toperties have in	or been alorougi	ny mroaugatou.
Toxicity to algae: Persistence and Mobility in soil:	ia and other aquatic in No data available degradability: No data No data available	PBT and I hazard cannot be exclu	mulative potential: No I vPvB assessment: N	lo data available	or disposal.		
These disposal	nuidelines are intende	d for the disposal of ca of in accordance with	atalog-size quantities all local, state and fee	only. Federal regulations of	ulations may ap or contract with	oply to empty c a licensed che	ontainer. State and/or loca mical disposal agency.
UN/NA number Hazard class: Exceptions: M	 Not applicable Not applicable lot applicable 	Shipping name: Packing group: 2020 ERG Guide	Not applicable	Reportable Qu	uantity: No	Ma	rine pollutant: No
Section 15	Regulatory infor		um is on the Inventory list	1 day			
A chemical is consid Comp		number for the anhydrous fo TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Activated carbon		Listed	Not listed	Not listed	Not Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
	Other informatio	n					
Section 16	and the second se			and the second	South States and States	and the second second	ared by them and must make indep

SDS No.: SS0151	SAFETY DATA SHE	ET	GENERAL STORAGE CODE GREEN
Section 1 Identificat	tion		Page E1 of E2
Innovating Sc	ence for the classroom" 221 Rocheste (585) 226-613	414-9409	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product SILICON METAL, L	UMPS		
Synonyms Silicon Metal			
Section 2 Hazards I	dentification	Salar Barris	
to the Globally Harmonized Sys Chemicals. Signal word: None required Pictograms: No symbol required Target organs: None known GHS Classification: None requi GHS Label Information: Hazard Precautionary statement: None Hazards not otherwise classification of the the state of the	red statement: None required required fied: isified (HHNOC) - Not Known assified (PHNOC) - Not Known	gloves/protes	he dust. Do not get in eyes, on skin, or on clothing. Wear protective ctive clothing/eye protection/face protection. Wash hands thoroughly g. Get medical attention if you feel unwell.
	tion / Information on ingredients	Not States	ENERG
Chemical Name	CAS#	%	EINECS
Silicon metal lumps	7440-21-3	100%	231-130-8

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 anythin g by mouth to an unconscious person.

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

EYE CONTACT: MAY CAUSE 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: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN 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: Use any media suitable for extinguishing supporting 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: 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: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure controls / personal protection	Chiesen apply the state		
Execute Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Silicon	Not established	TWA: 5 mg/m ³ Respirable fraction	TWA: 5 mg/m ³ Respirable fraction

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator. approved res

Appearance: Sol	Physical and cher	mical properties					
Odor: No odor. Odor threshold: pH: Data not avai	g point: 1440°C (2624°F ata not available	Flammability Explosion lin Vapor pressi Vapor densit Relative den	rate (=1): Data not (solid/gas): Data not nits: Lower / Upper: ure (mm Hg): Data not y (Air = 1): Data not a sity (Specific gravity) s): Insoluble in water.	t available. Data not available ot available available	Auto-ignitie Decompos Viscosity: Molecular f		: Data not available are: Data not available.
Section 10	Stability and reac	tivity					
	y: Stable oid: Avoid generation of terlals: Acids and strong	airborne dust.	dous polymerization:	Will not occur.			
lazardous decor	mposition products: No	one known.					
Section 11	Toxicological Info	rmation			1		
NTP: No compone (ARC: No compone OSHA: No compone Ca Prop 65: This p Reproductive tox STOT-single expo STOT-repeated et Aspiration hazard Potential health et nhalation: May be skin: Contact with Eyes: Contact with Signs and sympt	e harmful if inhaled. harmful if swallowed. h may cause irritation. h may cause irritation. coms of exposure: Low I	nt at levels greater than o ent at levels greater than any chemicals known to e able hazard in the form of lum	or equal to 0.1% is ider or equal to 0.1% is ide the State of California	ntified as probable, po intified as a carcinogo to cause cancer or re	ossible or confir en or potential c productive toxic	med human car arcinogen by O city.	
Additional Inform	Ecological Information: RTECS #: VW04	a second s	N-DOLD JAMES LLO	Contractor and	A FOR THE STATE		
Foxicity to algae: Persistence and o Mobility in soil: M Other adverse eff	ia and other aquatic inv No data available degradability: No data a No data available lects: An environmental l	available Bioaccun PBT and hazard cannot be exclud	nulative potential: No vPvB assessment: N	lo data available	or disposal.		
Section 13	Disposal consider			and the second second			
	puidelines are intended be different. Dispose of Transport inform	of in accordance with a	alog-size quantities Il local, state and fe	only. Federal regu deral regulations or	lations may ap contract with	oply to empty o a licensed che	container. State and/or loca emical disposal agency.
egulations may	manaport morning		Not Regulated				
egulations may section 14 JN/NA number: lazard class: 1	Not applicable	Shipping name: Packing group: 1 2020 ERG Guide f	Not applicable	Reportable Qua	antity: No	Ma	arine pollutant: No
egulations may section 14 JN/NA number lazard class: I exceptions: N section 15	Not applicable Not applicable ot applicable Regulatory Inform	Packing group: 1 2020 ERG Guide f ation	Not applicable Not applicable	Reportable Qu	antity: No	Ma	arine pollutant: No
egulations may section 14 IN/NA numbers lazard class: 1 exceptions: N ection 15 chemical is conside	Not applicable Not applicable ot applicable Regulatory Inform red to be listed if the CAS no	Packing group: 1 2020 ERG Guide f ation umber for the anhydrous for	Not applicable Not applicable m is on the Inventory list.				
egulations may Section 14 JN/NA number Hazard class: I Exceptions: N Section 15	Not applicable Not applicable ot applicable Regulatory Inform red to be listed if the CAS no	Packing group: 1 2020 ERG Guide f ation	Not applicable Not applicable	Reportable Qua RCRA code D001	antity: No DSL Listed	M: NDSL Not listed	CA Prop 65 This product does not contain
egulations may Section 14 JN/NA number: Hazard class: 1 Exceptions: N Section 15 . chemical is conside Compo	Not applicable Not applicable ot applicable Regulatory Inform red to be listed if the CAS no	Packing group: 1 2020 ERG Guide & nation umber for the anhydrous for TSCA Listed	Not applicable Not applicable m is on the Inventory list. CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65 This product does not contain any chemicals known to the State

Revision Date: October 19, 2020

Supercedes: January 28, 2020

SDS No.: ZZ0022

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Section 1

Innovating Science® by Aldon Corporation "cutting edge science for the classroom"

Identification

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

Page E1 of E2 CHEMTREC 24 Hour Emergency

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

Product ZINC SHOT	
Synonyms Zinc / Zinc Metal / Zinc Metal Shot	
Section 2 Hazards Identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified Precautionary statement(s): Not classified	Supplemental Information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.
<u>Hazards not otherwise classified:</u> Health hazards not otherwise classified (HHNOC) - Combustible dust Physical hazards not otherwise classified (PHNOC) - Not Known	

Chemical Name	CAS #	%	EINECS	
Zinc, shot	7440-66-6	100%	231-175-3	

First aid measures Section 4

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

EYE CONTACT: MAY CAUSE MECHANICAL 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: MAY CAUSE DERMATITIS, 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 triclass, dry chemical fire extinguisher. Do NOT use water on fire where molten metal is present. 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. Molten metals produce fume, vapor and/or dust that may be toxic and/or a respiratory irritant. Metal reacts with oxidizing agents. Small chips, turnings, and dust with ignite readily. Dust cloud may be explosive.

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7	Handling and	i storage				Page E2 of	E2
Read label on contain	er before using.	Do not wear contac	t lenses when working with chemicals	. Keep container tightly closed	Keep out of reach of children	Use with	

adequate ventilation. Wash thoroughly after handling. Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale fumes from molten metals. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

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Section 8	Exposure controls / personal protec	uon		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure cinits.	Particulates not otherwise classified	None established	TWA: 5 mg/m ³ respirable fraction	None established

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

A	Physical and chemical p	roperties	2.94-1 (A. K.				and the second s
Appearance: Solid Odor: No odor. Odor threshold: D pH: Data not availa Melting / Freezing po Boiling point: 907 Flash point: Not ap	nble. sint: 419°C (787°F) °C (1665°F)	Flammability Explosion lin Vapor presso Vapor densit	rate (=1): Not app r (solid/gas): Not app nits: Lower / Upper: ure (mm Hg): Data n y (Air=1): Data not sity (Specific gravity s): Insoluble	plicable Not applicable ot available available	Auto-igni Decompo Viscosity Molecula		re: Not applicable ture: Data not available. able.
Section 10	Stability and reactivity		A Star Star		alle and		and a market water
Incompatibilities w	d: Excessive temperatures. Hy ith other materials: Strong ac	/drogen may evo ids, halogens, ac	ds, alkalies and wate	rith water or damp air er.			
Hazardous decomp	position products: Zinc oxides	s and zinc fumes.	Reacts with water, a	acids or alkalies to ge	enerate hydroge	en gas.	
Section 11	Toxicological Information		and the second second	AND STREET, ST		Vielen State	
Respiratory or skir Germ cell mutagen Carcinogenity: Da NTP: No componen IARC: No componer OSHA: No compone Ca Prop 65: This pro Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard:	t of this product present at level at of this product present at level and of this product present at level boduct does not contain any cher ity: Data not available ure: Data not available Dosure: Data not available Data not available	able s greater than or Is greater than o els greater than o	r equal to 0.1% is ider or equal to 0.1% is ide	ntified as probable, p entified as a carcinod	ossible or confi	rmed human car carcinogen by C	rcinogen by IARC. SHA.
Skin: May cause de Eyes: Contact with o Signs and sympton	n of dust or fume may cause init armful if swallowed. rmatitis. ayes may cause mechanical irrit ns of exposure: Over-heating	tation. of alloy can prod					
Inhalation: Inhalation Ingestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat Section 12	n of dust or fume may cause initia armful if swallowed, rmatitis. ayes may cause mechanical initi ns of exposure: Over-heating tion: RTECS #: None assigned Ecological Information	tation. of alloy can prod					
Inhalation: Inhalation Ingestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat Section 12 Foxicity to fish: No foxicity to daphnia foxicity to daphnia foxicity to algae: No Persistence and de Mobility in soil: No Other adverse effect Section 13	n of dust or fume may cause initial armful if swallowed, armatitis. ayes may cause mechanical initians of exposure: Over-heating atom RTECS #: None assigned Ecological Information data available and other aquatic invertebration data available gradability: No data available data available ts: An environmental hazard ca Disposal considerations delines are intended for the of different. Dispose of in accounts of the different.	tation. of alloy can prod d es: No data avai Bioaccum PBT and v annot be exclude	uce metal fumes and lable ulative potential: No PvB assessment: N d in the event of unpre-	oxides. Over-expos o data available lo data available ofessional handling o	ure to dust and	fumes may cau	se mouth, eye, and nose irritat
nhalation: Inhalation ngestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat iection 12 foxicity to fish: No foxicity to algae: No exist to algae: No exist to algae: No exist to algae: No exist to algae: No ther adverse effect iection 13 These disposal gui egulations may be ection 14 IN/NA number: lazard class: No	n of dust or fume may cause initial armful if swallowed, armful if swallowed, armatitis. ayes may cause mechanical initians of exposure: Over-heating them of exposure: Over-heating them of exposure: Over-heating them of the exposure of th	tation. of alloy can prod d es: No data avai Bioaccum PBT and v annot be exclude disposal of cata ordance with al ping name: N ing group: N	uce metal fumes and lable ulative potential: No PvB assessment: N d in the event of unpr log-size quantities of l local, state and fed Not Regulated	oxides. Over-expos o data available lo data available ofessional handling o	ure to dust and or disposal. lations may a r contract with	fumes may cau pply to empty o a licensed cho	se mouth, eye, and nose irritat
nhalation: Inhalation ngestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat iection 12 foxicity to fish: No foxicity to daphnia foxicity to algae: No ersistence and de Mobility in soil: No Other adverse effect fection 13 These disposal gui egulations may be iection 14 UN/NA number: lazard class: Not exceptions: Not ection 15	n of dust or fume may cause initial armful if swallowed, armful if swallowed, armatitis, ayes may cause mechanical initians of exposure: Over-heating atom RTECS #: None assigned Ecological Information data available and other aquatic invertebration data available gradability: No data available data available data available ts: An environmental hazard causes of in account offerent. Dispose of in account offerent information Not applicable Pack applicable 2020 Regulatory Information	tation. of alloy can prod d es: No data avai Bioaccum PBT and v annot be exclude disposal of cate ordance with al ping name: N ing group: N ERG Guide #	uce metal fumes and lable ulative potential: No PvB assessment: N d in the event of unpre- plog-size quantities of l local, state and feo l local, state and feo Not Regulated ot applicable Not applicable	oxides. Over-expos o data available lo data available ofessional handling o only. Federal regu deral regulations o	ure to dust and or disposal. lations may a r contract with	fumes may cau pply to empty o a licensed cho	se mouth, eye, and nose irritat container. State and/or loca emical disposal agency.
nhalation: Inhalation ngestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat Section 12 Foxicity to fish: No Foxicity to algae: No Parsistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gui egulations may be Section 14 UN/NA number: lazard class: No Exceptions: Not ection 15 chemical is considered	n of dust or fume may cause initial armful if swallowed, armful if swallowed, armatitis. ayes may cause mechanical initians of exposure: Over-heating atom RTECS #: None assigned Ecological Information data available and other aquatic invertebration data available gradability: No data available data available ts: An environmental hazard ca Disposal considerations delines are intended for the of different. Dispose of in according to the policable pack applicable pack applicable pack applicable pack and the CAS number for the of the of the case of the cas	tation. of alloy can prod d es: No data avai Bioaccum PBT and v annot be exclude disposal of cata ordance with al ping name: N ing group: N ERG Guide #	uce metal fumes and lable ulative potential: No PvB assessment: No d in the event of unpre- log-size quantities of local, state and feo local, state and feo local, state and feo local, state and feo Not Regulated lot applicable Not applicable	oxides. Over-expos o data available lo data available ofessional handling o only. Federal regu deral regulations o Reportable Qu	ure to dust and or disposal. lations may a r contract with antity: No	fumes may cau pply to empty o a licensed cho Ma	se mouth, eye, and nose irritat container. State and/or loca emical disposal agency.
nhalation: Inhalation ngestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat Section 12 Foxicity to fish: No Foxicity to algae: No Parsistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gui egulations may be section 14 UN/NA number: lazard class: Not ection 15 chemical is considered Compone	n of dust or fume may cause initial armful if swallowed, armful if swallowed, armatitis. ayes may cause mechanical initians of exposure: Over-heating attractions of exposure: Over-heating attractions of the available and other aquatic invertebration data available gradability: No data available data available data available attractions delines are intended for the of different. Dispose of in accomposed in the applicable procession of the applicable procession of the case of the case of the applicable procession of the case of the case of the applicable procession of the case of the case of the applicable procession of the case of the	tation. of alloy can prod d es: No data avai Bioaccum PBT and v annot be exclude disposal of cate ordance with al ping name: N ing group: N ERG Guide # the anhydrous form TSCA	uce metal fumes and lable ulative potential: No PvB assessment: N d in the event of unpre- log-size quantities of local, state and feo Not Regulated ot applicable Not applicable Not applicable	oxides. Over-expos o data available lo data available ofessional handling o only. Federal regu deral regulations o Reportable Qu RCRA code	ure to dust and or disposal. lations may a r contract with antity: No DSL	fumes may cau pply to empty o a licensed cho Ma NDSL	se mouth, eye, and nose irritat container. State and/or loca emical disposal agency. arine pollutant: No CA Prop 65
Inhalation: Inhalation Ingestion: May be h Skin: May cause de Eyes: Contact with o Signs and sympton Additional informat Section 12 Foxicity to fish: No Foxicity to algae: No Parsistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gui egulations may be Section 14 UN/NA number: Hazard class: No Exceptions: Not Section 15 chemical is considered	n of dust or fume may cause initial armful if swallowed, armful if swallowed, armatitis. ayes may cause mechanical initians of exposure: Over-heating attractions of exposure: Over-heating attractions of the available and other aquatic invertebration data available gradability: No data available data available data available attractions delines are intended for the of different. Dispose of in accomposed in the applicable procession of the applicable procession of the case of the case of the applicable procession of the case of the case of the applicable procession of the case of the case of the applicable procession of the case of the	tation. of alloy can prod d es: No data avai Bioaccum PBT and v annot be exclude disposal of cata ordance with al ping name: N ing group: N ERG Guide #	uce metal fumes and lable ulative potential: No PvB assessment: No d in the event of unpre- log-size quantities of local, state and feo local, state and feo local, state and feo local, state and feo Not Regulated lot applicable Not applicable	oxides. Over-expos o data available lo data available ofessional handling o only. Federal regu deral regulations o Reportable Qu	ure to dust and or disposal. lations may a r contract with antity: No	fumes may cau pply to empty o a licensed cho Ma	se mouth, eye, and nose irritat container. State and/or loca emical disposal agency. arine pollutant: No

Revision Date: October 30, 2020

Supercedes: February 5, 2020

Section 1

SAFETY DATA SHEET

FLAMMABLE STORAGE CODE RED

Innovating 'Science[®] by Aldon Corporation "cutting edge science for the classroom"

Identification

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

CHEMTREC 24 Hour Emergency

Page E1 of E2

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

Product SULFUR	
Synonyms Sulfur Flowers ; Sulfur Flour	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: GHS07 Target organs: None known	Precautionary statement: P264: Wash hands thoroughly after handling. 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.
GHS Classification: Skin irritation (Category 2)	
GHS Label information: Hazard statement: H315: Causes skin irritation.	
Hazards not otherwise classified: Health hazards not otherwise classified (HHNOC) - Combustible dust Physical hazards not otherwise classified (PHNOC) - Not Known	
Section 3 Composition / Information on Ingredients	

Chemical Name	CAS #	%	EINECS
Sulfur	7704-34-9	100%	231-722-6
Section 4 Einst ald measu	A REAL PROPERTY OF THE REAL PR	ATT MANY COLOR OF	a standard and the standard and the state of the state of the

Section 4 First ald 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. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES 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: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN 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. Finely dispersed particles form explosive mixtures in air.

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: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

1

8

10

Page E2 of E2

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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure controls / personal protection			
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Sulfur	None established	None established	None established

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

approved respirator.				and an address of the second		
Section 9 Physical and chemical pr	operties	1 - 19/4- 11-1 - MP.	1. (1) (118)	EVE CAL	A REAL OF	N. ALL
Appearance: Solid yellow powder or lumps. Odor: Odor of rotten eggs Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 116-121°C (242-251°F) Boiling polnt: 444°C (831°F) Flash point: 207°C (405°F) Closed Cup	Evaporation rate (= 1): Not a Flammability (solid/gas): Data Explosion limits: Lower / Upp Vapor pressure (mm Hg): 0 @ Vapor density (Air = 1): Data n Relative density (Specific gravity) Solubility(ies): Insoluble in wat	not available. er: 3.3% / 46.0% 138°C (280°F) not available : 2.04-2.07 @ 21°C (670°F)	Auto-igniti Decompos Viscosity: Molecular		e: 248°C (478°F) ure: Data not availa	able.
ection 10 Stability and reactivity						
hemical stability: Stable	Hazardous polymerizati	on: Will not occur.				
conditions to avoid: Excessive temperatures, hea						
ncompatible materials: Reacts violently with stron	0 0 0	opper and copper alloys.	Damp sulfur v	will corrode stee	l.	
lazardous decomposition products: Sulfur dioxid	de.					
ection 11 Toxicological information		STOCK DESIGNATION				
cute toxicity: Oral-rat LD50: >5000 mg/kg ; Inhala		; Dermal-rabbit LD50: >2	2000 mg/kg			
Skin corrosion/irritation: Skin-rabbit - Irritant.						
Serious eye damage/irritation: Data not available						
Respiratory or skin sensitization: Data not availa Serm cell mutagenicity: Data not available	ble					
Carcinogenity: Data not available						
NTP: No component of this product present at levels	s greater than or equal to 0.1% is in	tentified as a known or an	nticipated carci	inogen by NTP.		
ARC: No component of this product present at level						
DSHA: No component of this product present at leve Ca Prop 65: This product does not contain any chem	-				SHA.	
Reproductive toxicity: Data not available	invole known to the state of Callor	that to cause cancer of re	productive toxi	iony.		
TOT-single exposure: Data not available						
TOT-repeated exposure: Data not available						
spiration hazard: Data not available						
Potential health effects: hhalation: Burning sensation, cough, sore throat. N	May cause inflammation of the the	nose and respiratory traci				
ngestion: Burning sensation, cough, sole throat. k	way cause innamination of the the	nose and respiratory track				
kin: Redness. Prolonged or repeated contact may	y cause dermatitis.					
yes: Redness, pain, blurred vision.						
Signs and symptoms of exposure: See Potential	health effects above.					
Additional information: RTECS #: WS4250000 ection 12 Ecological information		A POPULATION	a name an	They want		
oxicity to fish: Brachydanio rerio (fish, fresh water	ar) 1 C50 = 866 ma/l /96 hours			A A A A A A A A A A A A A A A A A A A	BIR BURNESS IN	
oxicity to daphnia and other aquatic invertebrat		C50 = >10.000 mg/L/24	hours			
oxicity to algae: No data available	eer baprine magne (eraolaeee), e	iooo ingiciziti				
ersistence and degradability: No data available						
obility in soil: No data available	PBT and vPvB assessmen					
ther adverse effects: An environmental hazard ca	annot be excluded in the event of u	inprofessional handling of	r disposal.		and a second second	A DESCRIPTION OF STREET,
ection 13 Disposal considerations nese disposal guidelines are intended for the	disposal of catalog size quantit	ies only. Federal regul	ations may a	only to emoty	container State	and/or local
gulations may be different. Dispose of in acc	ordance with all local, state and	federal regulations or	contract with	a licensed ch	emical disposal a	gency.
ection 14 Transport Information		and the second states	Area and and		N= 2 - 101	
	name: Sulfur					
		portable Quantity: No	0	M	arine pollutant:	No
Contract of the second s	Guide # 133	Constant and a lot of the lot of				
ection 15 Regulatory information	the appropriate from the state of the	Les	The States			51.5 ·
chemical is considered to be listed if the CAS number for Component	TSCA CERLCA (R		DSL	NDSL	CA Pro	0 65
ulfur					This product does in	
unu .	Listed Not listed	Not listed	Listed	Not listed	any chemicals know	wn to the State
					of California to cau	
ection 16 Other information	A CONTRACTOR OF		and the second	The state of the state of the	reproductive toxicit	у.
	ntu of any kind. Employers should us	this information only as	pplamant to att	ar information and	and by the set	at makes last
ent determinations of suitability and completeness of inform	mation from all sources to assure prope	r use of these materials and	the safety and h	ealth of employee	s. NTP: National Toxi	icology Progra
RC: International Agency for Research on Cancer, OSHA	: Occupational Safety and Health Admi	nistration, STOT: Specific Tar	rget Organ Toxic	ity, SE: Single Exp	osure, RE: Repeated	Exposure,
	Davis	ion Data: October	27 2020	e	areadas. Esta	
The Information contained herein is furnished without warra dent determinations of suitability and completeness of inforr IARC: International Agency for Research on Cancer, OSHA ERG: Emergency Response Guidebook. Form 06/2015	mation from all sources to assure prope Coccupational Safety and Health Admi	r use of these materials and	the safety and h rget Organ Toxic	ealth of employee ity, SE: Single Exp	s. NTP: National Toxi	E

SDS No.: CC0416

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Section 1	Identification

Innovating Science[®] by Aldon Corporation

Page E1 of E2

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

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 "cutting edge science for the classroom" Product COPPER METAL Copper Metal Foil / Copper Foil Synonyms Section 2 Hazards identification This substance or mixture has not been classified as hazardous according Supplemental information: to the Globally Harmonized System (GHS) of Classification and Labeling of SHARP EDGES! ABRASIVE TO SKIN. USE CARE WHEN HANDLING. Do not breathe dust or fume. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: Liver, Kidneys GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified Precautionary statement(s): Not classified Hazards not otherwise classified: Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Chemical Name	CAS #	%	EINECS	
Copper metal	7440-50-8	100%	231-159-6	

Sec an 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: HARMFUL IF INHALED AS FUME. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE 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: MAY CAUSE 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: Use triclass, dry chemical fire extinguisher. Do NOT use water on fire where molten metal is present.

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. Molten metals produce fume, vapor and/or dust that may be toxic and/or a respiratory initant. Metal reacts with oxidizing agents.

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: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Handling and storage Section 7

Page E2 of E2

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling. Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale fumes from molten metals. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure controls / personal protect	tion		
Europeune I Imites	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Conner dusts and mists as Cu	TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³

ohhe 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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Physical and chemi		the second se		a second a second second second	and the second sec	
Turns green on ex Door: No odor. Door threshold: DH: Data not avai Melting / Freezing Boiling point: 25 Flash point: Not	g point: 1083°C (1981°F) 995°C (4703°F) applicable	Flammability (Explosion limit Vapor pressure Vapor density Relative densit Solubility(ies):	tte (= 1): Not applicable solid/gas): Not applicable ts: Lower / Upper: Not e (mm Hg): 1 mm @ 16; (Air = 1): Data not availe ty (Specific gravity): 8.9 Insoluble	le applicable 28°C able	Auto-igniti Decompos Viscosity: Molecular		: Not applicable ure: Data not available.
ection 10	Stability and reactiv	vity					
compatibilities	y: Stable oid: Excessive temperature with other materials: Stro mposition products: At te	es and heat. ong oxidizers may cause			ttad		
ection 11	Toxicological inform		g point, toxic fumbs of ve	pors may be om			Contraction of the local sectors of the local secto
Serious eye dam Respiratory or sk Germ cell mutage Carcinogenity: E NTP: No compone IARC: No compon OSHA: No compon OSHA: No compo Ca Prop 65: This p Reproductive tox STOT-single expe	ritation: Data not available age/irritation: Data not av kin sensitization: Data no enicity: Data not available Data not available ent of this product present ent of this product present inent of this product present product does not contain ar kicity: Data not available osure: Data not available	vailable t available at levels greater than or e at levels greater than or t at levels greater than or	equal to 0.1% is identified equal to 0.1% is identified	d as probable, po ed as a carcinoge	ssible or confir n or potential c	med human card arcinogen by O	
Aspiration hazard Potential health e Inhalation: Inhala Ingestion: May be Skin: May cause Eyes: Contact wit Signs and sympt skin and hair disco disease characteri	xposure: Data not availab d: Data not available effects: tion of dust or fumes may ir b harmful if swallowed. Syn irritation and redness. th eyes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis,	rritate respiratory system. nptoms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina	al pain, nausea, vomiting, ce metal fumes and oxide the upper respiratory tra	es. Fumes of cop ict, metallic taste	oper may cause in the mouth, a	e metal fume fev	ver with flu-like symptoms and ronic poisoning results in Wike
Aspiration hazard Potential health of Inhalation: Inhala Ingestion: May be Skin: May cause Eyes: Contact wit Signs and sympt skin and hair disco disease characteri Additional Inform	xposure: Data not availab d: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. th eyes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL5326	ritate respiratory system, nptoms include abdomina and pain. eating of alloy can produ d fume cause irritation of brain damage, denyelina 5000	al pain, nausea, vomiting, ce metal fumes and oxide the upper respiratory tra	es. Fumes of cop ict, metallic taste	oper may cause in the mouth, a	e metal fume fev	
Aspiration hazard Potential health of Inhalation: Inhalation: Inhalation: Inhalation: Inhalation Skin: May cause i Syes: Contact with Signs and sympt skin and hair disco disease characteri Additional Inform fection 12 Foxicity to fish: 1 foxicity to daphen foxicity to daphen foxicity to daphen foxicity to algae: ersistence and Mobility in soil: 1	xposure: Data not availab d: Data not available effects: tion of dust or fumes may in a harmful if swallowed. Syn irritation and redness. the yes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL5325 Ecological informat No data available na and other aquatic inve No data available degradability: No data available	ritate respiratory system. nptoms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa allable Bioaccumu PBT and vF	al pain, nausea, vomiting, ce metal fumes and oxid the upper respiratory tra tion, renal disease and c able able Dative potential : No dat	es. Fumes of cop ict, metallic taste opper depostion i apper depostion i apper depostion i	oper may causi in the mouth, a in the cornea.	e metal fume fev	
Aspiration hazard Potential health of inhalation: Inhala ingestion: May be Skin: May cause I Eyes: Contact wit Signs and sympt skin and hair disco disease character Additional inform fection 12 Foxicity to fish: I foxicity to daphn foxicity to daphn foxicity to dapae: Persistence and Mobility in soil: I Other adverse eff	xposure: Data not availab d: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. th eyes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL532? Ecological Informat No data available nia and other aquatic inver- No data available degradability: No data av-	ritate respiratory system. nptoms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa ailable Bioaccumu PBT and vf azard cannot be excluded	al pain, nausea, vomiting, ce metal fumes and oxid the upper respiratory tra tion, renal disease and c able able Dative potential : No dat	es. Fumes of cop ict, metallic taste opper depostion i apper depostion i apper depostion i	oper may causi in the mouth, a in the cornea.	e metal fume fev	
Aspiration hazard Potential health of Inhalation: Inhalation: Inhalation: Inhalation: Inhalation Skin: May cause is Skin: May cause is Signs and sympt Signs and sympt Signs and hair disco disease characterit Additional Inform Section 12 Foxicity to fish: If Foxicity to daphen Foxicity to daphen Foxicity to daphen Foxicity to daphen Foxicity to daphen Foxicity to adapter Section 13 These disposal g egulations may	xposure: Data not availab d: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. th eyes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL532? Ecological informat No data available nia and other aquatic inver- No data available degradability: No data av- No data available fects: An environmental har Disposal consideral guidelines are intended fi	ritate respiratory system. nploms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa allable Bioaccumu PBT and vF azard cannot be excluded tions or the disposal of catal in accordance with all	al pain, nausea, vomiting, ce metal fumes and oxidi the upper respiratory tra tion, renal disease and c able Dative potential : No dat PVB assessment : No dat in the event of unprofes log-size quantities only	es. Fumes of cop ict, metallic taste opper depostion i ta available ata available sional handling o y. Federal regul	oper may cause in the mouth, a in the cornea. r disposal. ations may ap	e metal fume fev nd nausea. Chi	ronic poisoning results in Wik
Aspiration hazard Potential health of Inhalation: Inhalation: Inhalation: Inhalation: Inhalatingestion: May be Skin: May cause is Eyes: Contact with Signs and sympt skin and hair disco disease characteri Additional Inform Section 12 Foxicity to dapher Foxicity	xposure: Data not availab d: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. th eyes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL5329 Ecological informat No data available nia and other aquatic inver- No data available degradability: No data av- No data available fects: An environmental har Disposal consideral guidelines are intended fi be different. Dispose of Transport informat r: Not applicable Not applicable	ritate respiratory system. nploms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa allable Bioaccumu PBT and vF azard cannot be excluded tions or the disposal of catal in accordance with all	al pain, nausea, vomiting, ce metal fumes and oxidi the upper respiratory tra tion, renal disease and c able Dative potential : No dat PvB assessment : No dat PvB assessment : No dat in the event of unprofes log-size quantities only local, state and federal lot Regulated ot Regulated ot applicable	es. Fumes of cop ict, metallic taste opper depostion i ta available ata available sional handling o y. Federal regul	oper may cause in the mouth, a in the cornea. r disposal. ations may ap contract with	e metal fume fev nd nausea. Chi poly to empty c a licensed che	ronic poisoning results in Wik
Aspiration hazard ortential health of halation: Inhalation: Inhalation: Inhalation: Inhalation: Inhalations ingestion: May be skin: May cause is yes: Contact with ligns and sympt kin and hair disco lisease characterid difficient 12 oxicity to fish: I oxicity to fish: I oxicity to dapher oxicity to d	xposure: Data not availab d: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. theyes may cause redness toms of exposure: Over-h olorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL5328 Ecological informat No data available nia and other aquatic inver- No data available degradability: No data av- No data available fects: An environmental har Disposal considera guidelines are intended fi be different. Dispose of Transport informat r: Not applicable Not applicable Not applicable Regulatory Informa	rritate respiratory system. nploms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa ailable Bioaccumu PBT and vF azard cannot be excluded tions or the disposal of catal in accordance with all tion Shipping name: N Packing group: No 2020 ERG Guide #	al pain, nausea, vomiting, ce metal fumes and oxidi the upper respiratory tra tion, renal disease and c able Dative potential : No dat PVB assessment : No dat PVB assessment : No dat in the event of unprofes log-size quantities only local, state and federal lot Regulated ot Regulated ot applicable R Not applicable	es. Fumes of cop ict, metallic taste opper depostion i ta available ata available sional handling o r. Federal regul al regulations or	oper may cause in the mouth, a in the cornea. r disposal. ations may ap contract with	e metal fume fev nd nausea. Chi poly to empty c a licensed che	ronic poisoning results in Wik container. State and/or loc emical disposal agency.
Aspiration hazard otential health of halation: Inhalation: Inhalation: Inhalation: Inhalation: Inhalation ingestion: May bestive Skin: May cause is signs and sympt kin and hair disco lisease characterity diftional Inform ection 12 foxicity to fish: If foxicity to dapheric oxicity to dapheric costicity to dapheric isection 12 for adverse efficient of the section 13 These disposal of equilations may fection 14 JN/NA numberic faceton 15 chemical is conside	xposure: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. theyes may cause redness toms of exposure: Over-holorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL5325 Ecological informat No data available nia and other aquatic inver- No data available degradability: No data av- No data available fects: An environmental har Disposal considera guidelines are intended fi be different. Dispose of Transport informat r: Not applicable Not applicable Not applicable Regulatory informa ered to be listed if the CAS num	rritate respiratory system. nploms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa ailable Bioaccumu PBT and vi azard cannot be excluded ations or the disposal of catal in accordance with all tion Shipping name: N Packing group: No 2020 ERG Guide # tion nber for the anhydrous form	al pain, nausea, vomiting, ce metal fumes and oxidi the upper respiratory tra tion, renal disease and c able Native potential: No dat PvB assessment: No dat PvB assessment: No dat in the event of unprofes log-size quantities only local, state and federal lot Regulated ot Regulated ot applicable R Not applicable R	es. Fumes of cop ict, metallic taste opper depostion i ta available ata available sional handling o r. Federal regul al regulations or	oper may cause in the mouth, a in the cornea. r disposal. ations may ap contract with	e metal fume fev nd nausea. Chi oply to empty c a licensed che	container. State and/or loc emical disposal agency.
Aspiration hazard Potential health of Inhalation: Inhala Ingestion: May be Skin: May cause i Eyes: Contact wit Signs and sympt skin and hair disco disease characteri Additional Inform Section 12 Toxicity to fish: I Toxicity to fish: I Toxicity to algae: Persistence and of Mobility in soil: I Other adverse eff Section 13 These disposal of regulations may Section 14 UN/NA number Hazard class: Exceptions: N Section 15	xposure: Data not available effects: tion of dust or fumes may in e harmful if swallowed. Syn irritation and redness. theyes may cause redness toms of exposure: Over-holorization. Copper dust an ized by a hepatic cirrhosis, nation: RTECS #: GL5325 Ecological informat No data available nia and other aquatic inver- No data available degradability: No data av- No data available fects: An environmental har Disposal considera guidelines are intended fi be different. Dispose of Transport informat r: Not applicable Not applicable Not applicable Regulatory informa ered to be listed if the CAS num	rritate respiratory system. nploms include abdomina and pain. leating of alloy can produ d fume cause irritation of brain damage, denyelina 5000 tion rtebrates: No data availa ailable Bioaccumu PBT and vF azard cannot be excluded tions or the disposal of catal in accordance with all tion Shipping name: N Packing group: No 2020 ERG Guide #	al pain, nausea, vomiting, ce metal fumes and oxidi the upper respiratory tra tion, renal disease and c able Dative potential : No dat PVB assessment : No dat PVB assessment : No dat in the event of unprofes log-size quantities only local, state and federal lot Regulated ot Regulated ot applicable R Not applicable	es. Fumes of cop ict, metallic taste opper depostion i ta available ata available sional handling o r. Federal regul al regulations or	oper may cause in the mouth, a in the cornea. r disposal. ations may ap contract with	e metal fume fev nd nausea. Chi poly to empty c a licensed che	ronic poisoning results in Wik container. State and/or loc emical disposal agency.

STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Rep ted Expo ERG: Emergency Response Guidebook. rch on Form 06/2015

Revision Date: September 24, 2020

Supercedes: November 4, 2019

SAFETY DATA SHEET

FLAMMABLE STORAGE CODE RED

- Pige E1 of E2

Section 1	

"cutting edge science for the classroom" 221 Rochester Street (585) 226-6177

Identification

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

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

Product MAGNESIUM METAL, RIBBON			
Synonyms Magnesium			
Section 2 Hazards Identification			
Section 2 Hazards Identification Signal word: WARNING Pictograms: GHS02 Target organs: None known GHS Classification: Flammable solid (Category 2) GHS Label information: Hazard statement: H228: Flammable solid.			y statement: way from heal/sparks/open flames/hot surfaces. No smoking.
Hazards not otherwise classified: Health hazards not otherwise classified (HHNOC Physical hazards not otherwise classified (PHNC Section 3 Composition / Informa	DC) - Not Known		
Composition / Informa	CAS #	%	EINECS
Maonesium	7/30-05-/	00 8%	CINEVO

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. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE 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: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention

Section 5 Fire fighting measures

Sultable Extinguishing Media: Use only graphite powder, soda ash, powdered sodium chloride, or an appropriate metal-fire-extinguishing dry powder. DO NOT use water, carbon dioxide, or foam!

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear.

Specific Hazards: When heated in air to a temperature near its melting point, magnesium may ignite and burn. Dangerous in the form of dust or flakes and when exposed to flame or by violent chemical reaction with oxidizing agents. Magnesium may react with moisture or acids to evolve hydrogen gas, which is a highly dangerous fire or explosion hazard.

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: Remove all sources of ignition. Using non-sparking tools, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Keep away from water and moisture.

Section 8	Section 8 Exposure controls / personal protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linnis.	Magnesium	Not established	Not established	Not established	

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

Section 9	Physical and chemical p	properties			1		
Odor: No odor. Odor threshold: I H: Data not avail	point: 651°C (1203.8°F) 10°C (2030°F)	Flammability (Explosion limi Vapor pressur Vapor density Relative density	ate (= 1): Data not a solid/gas): Data not a ts: Lower / Upper: D e (mm Hg): 1 mm @ (Air = 1): Data not av y (Specific gravity): 1. : Negligible in water.	available. Data not available 621°C vailable	Auto-igniti Decompos Viscosity: Molecular		: 510°C (950°F) re: Data not available.
lection 10	Stability and reactivity						
Chemical stability Conditions to avo	y: Stable bid: Excessive temperatures, he		ous polymerization: ame and other sources				
ncompatible mat	erials: Magnesium will react wi	th water and acids	to release hydrogen.	Also hazardous with	chlorine, brom	nine, lodine and o	oxidizing agents.
lazardous decon	nposition products: Hydrogen						
ection 11	Toxicological informatio	m	and the later				
DSHA: No compoi Ca Prop 65: This p Reproductive tox STOT-single expo STOT-repeated ex Aspiration hazard Potential health en nhalation: Inhalation: Inhalation: Ingestion: Ingestio Skin: Particles imil Syes: Contact wit Signs and sympt	ent of this product present at lev- nent of this product present at lev- product does not contain any che- licity: Data not available soure: Data not available space: Data not available space: Data not available d: Data not available effects: ion may cause cough, sore thro- on causes burning sensation in t bedded in the skin may cause en h eyes may cause irritation and oms of exposure: Exposure to niting and muscular pain. Onsei	vels greater than o smicals known to th at, shortness of bre he mouth and may ruptions. Molten m corneal scratches. magnesium oxide	r equal to 0.1% is iden te State of California to eath. cause abdominal pair agnesium may cause Avoid direct viewing o fume subsequent to b	ntified as a carcinoge o cause cancer or re n and diarrhea. serious skin burns. of magnesium fires a urning can result in	en or potential opproductive toxi as eye injury ma metal fume fev	carcinogen by O icity. ay result, use fire er, The tempora	glasses. ry symptoms can include fever
Additional inform	Ecological Information	date sure		and the second second			
Toxicity to fish: Toxicity to daphn Toxicity to daphn Toxicity to algae: Persistence and o Mobility in soil: 1	No data available ia and other aquatic invertebra No data available degradability: No data available	e Bioaccum PBT and v	ulative potential: No PvB assessment: No	o data available	or disposal,		
Section 13	Disposal considerations	States and	13 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		and the second	Line - Line -	A MARTINE AND A
	uidelines are intended for the be different. Dispose of in ac Transport information						
IN/NA number lazard class:	UN1869 Shippin	g name: Magne group: III ss than 5 Kg	Report	able Quantity: N RG Guide # 138	0	Ma	arine pollutant: No
ection 15	Regulatory Information	and the second	and the second	Service Se			The second second
	ered to be listed if the CAS number for						
Compo	nent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
lagnesium		Listed	Not listed	D001	Listed	Not listed	This product does not contain any chemicals known to the Stal of California to cause cancer or reproductive toxicity.
lection 16	Other information	Star Star	and the second	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 167		
The information conta dent determinations of	ained hereIn is furnished without war of suitability and completeness of info gency for Research on Cancer, OSH	ormation from all sour	ces to assure proper use	nformation only as a su of these materials and	upplement to othe the safety and h	er information gath nealth of employee	ered by them and must make inde

Form 06/2015

Revision Date: October 7, 2020

Supercedes: January 20, 2020

SDS No.:	HH0090	SAFETY DA	ATA SHEET	CORROSIVE STORAGE CODE WHIT
Section 1	Identification			Page E1 of E2
	ovating Science		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.
Product	HYDROCHLORIC ACID, 1 MOLA	R (1 NORMAL) SOLUTIO	N	
Synonyms	Muriatic Acid, Water Solution / Hy	drogen Chloride, Water So	plution	
Section 2	Hazards identification			
Corrosive to Skin irritant	ins: Respiratory system, skin, eyes	, lungs.	P305+P351+P338: IF Remove contact lens P332+P313: If skin in P337+P313: If eye in P390: Absorb spillage	

GHS Label information: Hazard statement(s): H290: May be corrosive to metals. H316: Causes mild skin irritation. H320: Causes eye irritation.

Hazards not otherwise classified:

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

CAS #	%	EINECS
7732-18-5 7647-01-0	96.86% 3.14%	231-791-2 231-595-7
	7732-18-5	7732-18-5 96.86%

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: MAY CAUSE 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: MAY CAUSE 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. Contact with metals produce hydrogen, which is flammable and may produce explosive mixtures with air.

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.

Form 06/2015

Page E2 of E2 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 away from incompatible substances.

Section 8	Exposure controls / personal p	rotection		
E	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m ³	STEL: C 5 ppm / C 7 mg/m ³	STEL: C 5 ppm / C 7 mg/m3

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 respirator.

Boiling point: ~ 10 Flash point: Not fia Evaporation rate (Section 10 Chemical stability: Conditions to avoid Incompatible mater formaldehyde.	o data available ble point: ~ 0°C (~ 32°F) [water] 10°C (212°F) [water] ammable. = 1): < 1 Stability and reactivity Stable	Explosion lin Vapor pressu Vapor densit Relative dens Solubility(ies Partition coeff	(solid/gas): No data av nits: Upper/Lower: No ire (mm Hg): 14 [water]			ition temperatu	re: No data available
Chemical stability: Conditions to avoid Incompatible mater formaldehyde.	Stable		y (Air = 1): 0.7 [water] sity (Specific gravity):): Complete. icient: (n-octanol / water): temperature: No data	1.0 [water] No data available	Molecular	No data availabl formula: Mixture welght: Mixture	е.
Conditions to avoid Incompatible mater formaldehyde.							and the straight from the
formaldehyde.	d: Containers may burst when h		ous polymerization: W ntact with water.	/ill not occur.			
Hazardous dage	rials: Metals, bases, active met	als, alkali metals	, oxidizing agents, hydro	oxides, amines, carl	bonales, cyani	des, sulfides, sulf	fites,
nazaruous decomp	position products: Hydrogen c	hloride gas.					
Section 11	Toxicological Information		The Assessment	1. 1. 1. 1. 1.	1250.50	STAR STATUT	
Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Exercise appropriate Inhalation: May be h Ingestion: May be h Skin: May cause irri Eyes: May cause irri	ects: To the best of our knowle e procedures to minimize potenti harmful if inhaled. Material may harmful if swallowed.	lilution. dge the chemica al hazards. cause irritation t	I, physical and toxicologi o the tissue of the muco	ical properties have	not been thor	oughly investigat	ed. Specific data is not availa
Additional informat	tion: RTECS #: MW4025000 [Ecological information	Hydrochloric ack	1]	Concerning Articleus	11-11-021	Transfer Street of	
Toxicity to fish: LC Toxicity to daphnia Toxicity to algae: N	50 - Gambusia affinis (Mosquito and other aquatic invertebrat lo data available gradability: No data available	es: No data avai Bioaccum PBT and v	lable ulative potential: No d /PvB assessment: No	ata available data available	r disposal.		
			S. Southerson	State State		and the second	ALC: NOT THE OWNER AND ADDRESS OF THE OWNER ADDRESS
	Disposal considerations			ly. Federal regul	ations may a	anhu to emptu o	
Other adverse effect Section 13 These disposal gui regulations may be	Disposal considerations idelines are intended for the e different. Dispose of in acc	disposal of cata ordance with a	alog-size quantities on Il local, state and fede	ral regulations or	contract with	a licensed che	ontainer. State and/or loca mical disposal agency.
Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: 8	Disposal considerations idelines are intended for the different. Dispose of in acc Transport information UN1789 Ship	ordance with a ping name: I ing group: II	Il local, state and fede Hydrochloric acid I	ral regulations or Reportable Qua 2020 ERG Guid	contract with antity: 5000	a licensed che	ontainer. State and/or loca mical disposal agency. Marine pollutant: No
Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: 8 Exceptions: Lim	Disposal considerations idelines are intended for the different. Dispose of in acc Transport information UN1789 Ship Pack	ordance with a ping name: I ing group: II	Il local, state and fede Hydrochloric acid I	ral regulations or Reportable Qua	contract with antity: 5000	a licensed che	mical disposal agency.
Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: 8 Exceptions: Lim Section 15 A chemical is considere	Disposal considerations idelines are intended for the different. Dispose of in acc Transport information UN1789 Ship Pack hited quantity equal to or less Regulatory information id to be listed if the CAS number for	ordance with a ping name: I ing group: II s than 5 Lt the anhydrous form	Il local, state and fede Hydrochloric acid I n is on the Inventory list.	ral regulations or Reportable Qua 2020 ERG Guid	contract with untity: 5000 e # 157	à licensed che Ibs (2270 kg)	mical disposal agency. Marine pollutant: No
Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: 8 Exceptions: Lim Section 15 A chemical is considere Compone	Disposal considerations idelines are intended for the different. Dispose of in acc Transport information UN1789 Ship Pack hited quantity equal to or less Regulatory information id to be listed if the CAS number for	ordance with a ping name: I ing group: II s than 5 Lt the anhydrous form TSCA	I local, state and fede Hydrochloric acid I n is on the Inventory list. CERLCA (RQ)	Reportable Qua 2020 ERG Guid RCRA code	contract with antity: 5000 e # 157 DSL	a licensed che Ibs (2270 kg) NDSL	mical disposal agency. Marine pollutant: No CA Prop 65
Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: 8 Exceptions: Lim Section 15 A chemical is considere	Disposal considerations idelines are intended for the different. Dispose of in acc Transport information UN1789 Ship Pack hited quantity equal to or less Regulatory information id to be listed if the CAS number for	ordance with a ping name: I ing group: II s than 5 Lt the anhydrous form	Il local, state and fede Hydrochloric acid I n is on the Inventory list.	ral regulations or Reportable Qua 2020 ERG Guid	contract with untity: 5000 e # 157	à licensed che Ibs (2270 kg)	mical disposal agency. Marine pollutant: No

Revision Date: October 1, 2020

Supercedes: December 27, 2019

SDS No.:	CC0506 SAFETY D	ATA SHEET	GENERAL STORAGE CODE GREEN
Section 1	Identification		Page Et of E2
Inno "c	vating Science [®] by Aldon Corporation utting edge science for the classroom"	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.
Product	COPPER(II) CHLORIDE, 0.1 MOLAR SOLUTION		
Synonyms	Cupric Chloride, Water Solution		
Section 2	Hazards identification	A REAL PROPERTY AND A REAL	and the store should be a store with the
Pictograms	: WARNING : GHS07 / GHS09 ns: Respiratory system, Liver, Kidneys.	P270: Do not eat, o P273: Avoid release P280: Wear protect	tement: thoroughly after handling. Irink or smoke when using this product. a to the environment. tive gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Call a POISON CENTER or

doctor if you feel unwell.

P391: Collect spillage.

P302+P352: IF ON SKIN: Wash with plenty of water and soap, P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash before reuse.

GHS Classification: Acute toxicity-oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A) Aquatic acute toxicity (Category 1) Aquatic chronic toxicity (Category 1)

GHS Label information: Hazard statement: H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation. 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 ingredien

Section 5 Composition / information	on ingradiants		
Chemical Name	CAS #	%	EINECS
Water Cupric chloride, dihydrate	7732-18-5 10125-13-0	98.3% 1.7%	231-791-2 231-210-2 (anhydrous)
Section 4 First aid measures			

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. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE 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: MAY CAUSE SKIN 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: Use any media suitable for extinguishing supporting 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: 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 an inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

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 dusts. 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 protec	tion	A Participation of the second	
-	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Copper, dusts and mists, as Cu	TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 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/MSHAapproved respirator.

Appenance: Class. light blue liquid. Odor: Partition calculation influence influence infl	Section 9	Physical and chemical pr	operties						
Chemical stability: Stabile Hazardous polymerization: Will not occur: Conditions to avoid: Hygoscopic material. Avoid exposure or contact to exisme temperatures and incompatible materials. Incompatible materials. Incompatible materials: Potassium, sodium, hydrazine, nitromthane, all uminum, strong oxidizers, soetylene and sodium hypobromite. Hazardous decomposition products: Copper oxides and hydrogen chloride. Stellon 11 Toxicological Information Acute toxicity: (Copper chloride) Coral-rat LDS0: 200 mg/kg; Oral-human LD50: 200 mg/kg Sine corresion/intritation: Data not available Seginatory or Skin meanitazition: Data not available Service on other of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC; No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by SHA. CaP Pop 65; This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Raproductive toxicity: Data not available STOT-repeide exposure: Data not available STOT-repeide exposure: a tai not available STOT-repeide exposure: Copper able materials, norme any include initiation, sore throat, shortnes or available as a known or the nasal septum and upper respiratory tract irritation. Negetion 12 Experidonte toxini available and available as a septing and possible sc	Appearance: C Odor: No odor. Odor threshold pH: <1 Melting / Freezing Boiling point: A	 Iear, light blue liquid. Data not available. point: Approximately 0°C (32°F) (water) pproximately 100°C (212°F) (water) 	Evaporation r Flammability Explosion lim Vapor pressur Vapor density Relative density	(solid/gas): Data not avail its: Lower / Upper: Data re (mm Hg): 14 (water) / (Air = 1): 0.7 (water) / (Specific gravity): Approxim	a not available	Auto-igniti Decompos Viscosity: Molecular	on temperature ition temperature Data not availa formula: Mixtu	e: Data not available ure: Data not available. ble. re	
Conditions to avoid: Hygroscopic material. Avoid exposure or contact to extreme temperatures and incompatible materials. Incompatible materials: Polassium, sodium, hydrazine, nitromethane, aluminum, strong oxidizers, acetylene and sodium hypobromile. Haradros decomposition products: Copper colorised LDSO: 280 mg/kg Oral-human LDSO: 200 mg/kg Sin corrosion/Introlation: Data not available Serious eye damage/intratient: Data not available Serious eye damage/intratient: Data not available Gerniceginity: Data not available Serious eye damage/intratient: Data not available Gerniceginity: Data not available Gerniceginity: Data not available Gerniceginity: Data not available STOT-ingle exposure: Data not available STOT-ingle exposure: Data not available Stores exposure: Data not available Storestale. Storestale and exposure and and available Storestale. Symptoms of over-exposure may include inflation, sore throat, shortness of breath, ulceration and perforation of the nasal septum and upper respiratory tract relation. Stores contact with skin may reque symptomes of (Lofing, reformes, bildening and possible scaring, dermalits. Sters: Contact with skin may reques particinelistics. Chonge exposure: Copper salls impart a metallic taste in the mouth. Damage to the kidneys may course particinelistics. Stores contact with skin may reques to motivitaties. Chonge exposure: may also lead to fard available Stores other dwises and exposure: Copper salls impart a metallic taste in the mouth. Damage to the kidneys may course in person's with Wilson's disease. High contract with skin may reques by pavailabile approveme and based diser availabile Storestowi	Section 10	Stability and reactivity	a standard			2 10 01		Children States	
International meterials: Polassium, sodium, hydrazine, nitromethane, aluminum, strong oxidizers, acetylene and sodium hypobromile. Hazardous decomposition products: Copper oxides and hydrogen chloride. Section 11 Toxicological information Acute toxicity: [Copper chloride] Oral-att LD50: 290 mg/kg : Oral-human LD50: 200 mg/kg Sin corrosolomitization: Data not available Gene cell mutagenicity: Data not available BTO - mogo not not in product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by URC. CBHA No component of this product present at levels greater than or equal to 0.1% is identified as a cause cancer or reproductive toxicity. Reproductive toxicity: Data not available BTO - mogo not not not available BTO - mogo not not not not available BTO - mogo not not not not not not not not not no									
Hazardous decomposition products: Copper oxides and hydrogen chloride. Section 1 Toxicological Information Acute toxicity: [Copper chloride] Oral-ret LL505: 280 mg/kg : Oral-human LD50: 200 mg/kg Shi corresolnintretation: Data net available Section 21 Section 21 Section 21 Section 2 Section 3 Section 2 Section 3 Section 4 Section 3 Section 4 Section 3 Section 3 Section 4 Section 3 Section 3 Section 4 Section 3 Section 4 Section 3 Section 4 Section 3 Section 4 Section 3 Section 4 Sectio									
Section 11 Toxicological Information Acute toxicity: [Copper chloride] Oral-rat LD50: 200 mg/kg : Oral-human LD50: 200 mg/kg Skin corresion/irritation: Data not available Services evel damage/irritation: Data not available Services evel damage/irritation: Data not available Gern cell mutagenicity: Data not available Services evel damage/irritation: Data not available Gern cell mutagenicity: Data not available Services evel damage/irritation: Data not available Gern cell mutagenicity: Data not available Services evel damage/irritation: Services and available ADC: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by OSHA. CSTO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single exposure: Data not available STO1-single expos					ers, acetylene and	sodium nypo	bromile.		
Acute toxicity: [Copper chloride] Oral-human LD50: 200 mg/kg ' Serious sey damage/irritation: Data davailable Serious sey damage/irritation: Data not available Gerningenity: Data not available Serious: Data not available Strot-single separation Serious: Gorne Serious: Data not available STOT-single separation: Data not available Potential health effects: Inhalablo: Strinablo: Strin dota data not	Hazardous deco	omposition products: Copper oxid	les and hydrogen	chloride.					
Skin corosision/irritation: Data not available Respiratory or skin sensitization: Data not available Gern cell mutagenicity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available Skin & component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by OSHA. Car Pop 85: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Raproductive toxicity: Data not available STOT-angle exposure: Data not available STOT-angle exposure: Data not available Strin. Contact with skin may cause gastrointestinal irritation, sore throat, shortness of breath, ulceration and perforation of the nasal septum and upper respiratory tract irritation. Ingestion: May cause gastrointestinal irritation, sore throat, shortness of breath, ulceration and perforation of the nasal septum and upper respiratory tract irritation contact with skin may cause gastrointestinal irritation, sore throat, shortness of breath, ulceration and other biod cell abnormalities. Stor. Contact with skin may cause gastrointestinal irritation, sore throat, shortness of breath, ulceration and other biod cell abnormalities. Stor. Contact with skin may cause gastrointestinal irritation, sore throat, and burd vise seas cause consolinginy.	Section 11	Toxicological information	Collection of		A CONTRACTOR				
Toxicity to fish: Bluegill LC50: 0.9 mg/L/96 hours [Copper chloride] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna EC50: 0.04 mg/L/48 hours [Copper chloride] Toxicity to algae: Selenastrum EC50: 0.12 mg/L/96 hours [Copper chloride] Persistence and degradability: No data available Mobility in soil: No data available Bioaccumulative potential: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal considerations These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or loc regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport Information UN/NA number: UN3082 Shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s., (Cupric chloride solution) Hazard class: 9 Packing group: III Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: Yes Section 15 Regulatory Information Component TSCA CERLCA (RQ) RCA code DSL NDSL CA Prop 65 <td cols<="" td=""><td>NTP: No compo IARC: No compo OSHA: No comp Ca Prop 65: This Reproductive to STOT-single ex</td><td>nent of this product present at levels onent of this product present at leve oonent of this product present at leve s product does not contain any chen oxicity: Data not available posure: Data not available</td><td>Is greater than or els greater than o</td><td>equal to 0.1% is identified or equal to 0.1% is identified</td><td>as probable, pos d as a carcinoger</td><td>sible or confir or potential c</td><td>med human can arcinogen by O</td><td></td></td>	<td>NTP: No compo IARC: No compo OSHA: No comp Ca Prop 65: This Reproductive to STOT-single ex</td> <td>nent of this product present at levels onent of this product present at leve oonent of this product present at leve s product does not contain any chen oxicity: Data not available posure: Data not available</td> <td>Is greater than or els greater than o</td> <td>equal to 0.1% is identified or equal to 0.1% is identified</td> <td>as probable, pos d as a carcinoger</td> <td>sible or confir or potential c</td> <td>med human can arcinogen by O</td> <td></td>	NTP: No compo IARC: No compo OSHA: No comp Ca Prop 65: This Reproductive to STOT-single ex	nent of this product present at levels onent of this product present at leve oonent of this product present at leve s product does not contain any chen oxicity: Data not available posure: Data not available	Is greater than or els greater than o	equal to 0.1% is identified or equal to 0.1% is identified	as probable, pos d as a carcinoger	sible or confir or potential c	med human can arcinogen by O	
Toxicity to daphnia and other aquatic invertebrates: Daphnia magna EC50: 0.04 mg/L/48 hours [Copper chloride] Toxicity to algae: Selenastrum EC50: 0.12 mg/L/96 hours [Copper chloride] Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soit: No data available PBT and VPVB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal considerations These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or loc regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information UN/NA number: UN3082 Shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s., (Cupric chloride solution) Hazard class: 9 Packing group: III Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: Yes Section 15 Regulatory Information UN/NA number: UN3082 Shipping name: RQ, Environmentally equal to or more than 4.54 Kg 2020 ERG Guide # 171 Secton 15	Aspiration haza Potential health Inhalation: Sym irritation. Ingestion: May Skin: Contact w Signs and sym concentrations in Additional info	ard: Data not available a effects: ptoms of over-exposure may include cause gastrointestinal irritation with ith skin may cause symptoms of itcl vith eyes may cause redness, pain a ptoms of exposure: Copper salts n contact with skin may result in bur	symptoms such a hing, redness, blis and blurred vision impart a metallic ns. Chronic expo	as nausea, vomiting and dia stering and possible scarrin a. Prolonged contact may a taste in the mouth. Damag	arrhea. ng, dermatitis. cause corneal inj ge to the kidneys	ury. may occur in p	person's with W	ilson's disease. High	
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or loc regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information UN/NA number: UN3082 Shipping name: RQ, Environmentally hazardous substance, liquid, n.o.s., (Cupric chloride solution) Hazard class: 9 Packing group: III Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: Yes Exceptions: Limited quantity equal to or less than 5 Lt.; Reportable quantity equal to or more than 4.54 Kg 2020 ERG Guide # 171 Section 15 Regulatory Information A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. KCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65 Cupric chloride (anhydrous) Listed 10 lbs (4.54 kg) Not listed Listed Not listed This product does not contain any chemicals known to the sol of california to cause cancer or	Aspiration haza Potential health Inhalation: Sym irritation. Ingestion: May Skin: Contact w Eyes: Contact w Signs and sym concentrations in	ard: Data not available a effects: ptoms of over-exposure may include cause gastrointestinal irritation with ith skin may cause symptoms of itcl vith eyes may cause redness, pain a ptoms of exposure: Copper salts in contact with skin may result in bur rmation: RTECS #: GL7030000 [C	symptoms such a hing, redness, blis and blurred vision impart a metallic ns. Chronic expo	as nausea, vomiting and dia stering and possible scarrin a. Prolonged contact may a taste in the mouth. Damag	arrhea. ng, dermatitis. cause corneal inj ge to the kidneys	ury. may occur in p	person's with W	ilson's disease. High	
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make indepen-dent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT. Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015

Revision Date: September 24, 2020

Supercedes: November 6, 2019

SDS No.:	SS0270 SAFETY	DATA SHEET		GENERAL STORAGE CODE GREEN
Section 1	Identification	Sub-sub-sub-	The State State	Page Et of E2
	vating Science [®] by Aldon Corporation atting edge science for the classroom"	221 Rochester Stree Avon, NY 14414-940 (585) 226-5177		CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	SODIUM BICARBONATE, ANHYDROUS			
Synonyms	Baking Soda / Sodium Hydrogen Carbonate / Carbonic A	cid Sodium (1:1)		
Section 2	Hazards Identification			
This substa	nee or mixture has not been classified as hazardous a	coording	Precautionary statement(s)	

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective

Chemicals. Signal word: Not classified Prictograms: Not classified Target organs: Not classified GHS Label Information: Hazard statement(s): Not classified

Hazards not otherwise classified:

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

to the Globally Harmonized System (GHS) of Classification and Labeling of

Section 3 Composition / inf	prmation on ingredients		A STATE OF A STATE OF A STATE OF A	
Chemical Name	CAS #	%	EINECS	
Sodium bicarbonate	144-55-8	100%	205-633-8	

Section 4 First aid measures

INGESTION: 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: 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Sultable Extinguishing Media: Use any media suitable for extinguishing supporting 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material is commonly used to extinguish fires.

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2 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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure controls / personal protect	lon		a ful par a la serie de la
Experies Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Sodium bicarbonate	None established	None established	None established

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator

Section 9	Physical and cher	nical properties			gilling the		
Appearance: Soli Odor: No odor. Odor threshold: oH: 8.2 (1% soluti	id, white crystalline powde Data not available. ion) g point: Data not availab icomposes	er. Evaporation of Flammability Explosion lim Vapor pressu le Vapor density Relative dens	ate (= 1): Data not av (solid/gas): Data not av its: Lower / Upper: D re (mm Hg): Negligible / (Air = 1): Data not ava ity (Specific gravity): / ;: 8.6 g/100 ml water at	available. Vata not available ailable 2.16 @ 20°C	Auto-ignitic Decomposi Viscosity: Molecular f		: Data not available re: Data not available ble.
Section 10	Stability and react	tivity	a dama a mart		1	1 Dentis	
Chemical stability Conditions to ave	y: Stable bid: High temperature ca		ous polymerization: Voodium carbonate, water				
ncompatible mai	terials: Reacts with acids	s to yield acid salts, water	and carbon dioxide.				
Hazardous decor	mposition products: Ga	seous carbon dioxide.					
Section 11	Toxicological info	mation		*			
IARC: No compon OSHA: No compo Ca Prop 65: This p Reproductive tox	ent of this product present ent of this product present nent of this product present product does not contain cicity: Data not available	nt at levels greater than o ent at levels greater than any chemicals known to l	r equal to 0.1% is identitor equal to 0.1% is identitor	fied as probable, po tified as a carcinoge	ssible or confir on or potential c	med human card arcinogen by OS	
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