

Safety Data Sheets

Flame Spectra Chemicals (Pack/6)

Part # 66623

500 Greenview Court Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050

Kit contains:

- 8g Lithium Chloride
- 8g Potassium Chloride
- 8g Strontium Chloride
- 8g Sodium Chloride
- 8g Calcium Chloride
- 8g Copper Chloride

SAFETY DATA SHEET

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Section 1

Identification

hand2, 500 Greenview Court Wernon Hills, Illinois 332 Phone: (847) 968-5050 Vernon Hills, Illinois 60061-1862

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

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

With the product of	Product	CALCIUM CHLORIDE, ANHYDROUS		
 Signal word: WARNING Pictograms: GHS07 Target organs: None known P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this P280: Wear protective clothing/ 921+P312: IF SWALLOWED: Call a POISON C P302+P352: IF ON SKIN: Wash with plenty of war P305+P351+P338: IF IN EYES: Rinse cautiously contact lenses, if present and easy to do. Continu P330: Rinse mouth. P332+P313: If skin irritation occurs: Get medical P362+P364: Take off contaminated clothing and P302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. 	Synonyms	N/A		
Pictograms: GHS07 Target organs: None known Image: Pictograms: Pictograms: None known Image: Pictograms: Pictograms: None known Image: Pictograms: Pictograms: Pictograms: None known Image: Pictograms: Pictogra	Section 2	Hazards identification		
Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known	Pictograms Target orga GHS Classi Acute toxicit Eye irritation Skin irritation GHS Label H302: Harm H315: Caus H319: Caus H319: Caus	: GHS07 ns: None known () fication: y (Oral) (Category 4) (Category 2A) n (Category 2A) n (Category 2) information: Hazard statement: ful if swallowed. es skin irritation. es serious eye irritation. es serious eye irritation.	P264: Wash P270: Do no P280: Wear P301+P312 P302+P352 P305+P351 contact lens P330: Rinse P332+P313 P337+P313 P362+P364 P501: Dispo	n hands thoroughly after handling. ot eat, drink or smoke when using this product. r protective gloves/protective clothing/eye protection/face protection 2: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. 2: IF ON SKIN: Wash with plenty of water and soap. ++P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove ses, if present and easy to do. Continue rinsing. e mouth. 3: If skin irritation occurs: Get medical attention. 4: Take off contaminated clothing and wash it before reuse. bose of contents/container to a licensed chemical disposal agency in
Section 3 Composition / information on ingredients		· · · · · · · · · · · · · · · · · · ·		

040#			
CAS #	%	EINECS	
10043-52-4	>91.0%	233-140-8	
7732-18-5	4.5%	231-791-2	
7447-40-7	2.5%	231-211-8	
7647-14-5	1.5%	231-598-3	
10476-85-4	0-1%	233-971-6	
	7732-18-5 7447-40-7 7647-14-5	7732-18-54.5%7447-40-72.5%7647-14-51.5%	7732-18-54.5%231-791-27447-40-72.5%231-211-87647-14-51.5%231-598-3

Section 4 First aid measures

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

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

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

SKIN ABSORPTION: 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 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. Heat is generated when product mixes with water.

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.

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

Section 8	Exposure controls / personal protection						
Exposure Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	Particulates not otherwise classified	None established	TWA: 15 mg/m ³ total dust	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/MSHAnirator woodr

approved respirator.							
Section 9	Physical and chemical pr	operties					
Appearance: Solid. Odor: No odor. Odor threshold: Dat pH: Data not availabl Melting / Freezing po Boiling point: Data n Flash point: Not app	able available. Not applicable e vailable not available	Auto-ignitio Decomposi Viscosity: Molecular f		• Not applicable re: Data not available. ble.			
Section 10	Stability and reactivity						
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Hygroscopic material. Avoid moisture. Incompatible materials: Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc and sodium. Hazardous decomposition products: None known.							
Section 11	Toxicological information						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component Ca Prop 65: This proc Reproductive toxicit STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Dust may Ingestion: Low toxicit Skin: Contact with sk Eyes: Contact with e	Acute toxicity: Oral-rat LD50: 2100 mg/kg ; Dernal-rabbit LD50: >5000 mg/kg Skin corrosion/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. 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 IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Dust may cause irritation to the upper respiratory tract (nose and throat). Ingestion: Low toxicity if swallowed. However, large amounts may result in gastrointestinal irritation or ulceration. Skin: Contact with skin may cause irritation and/or defatting on prolonged contact. Eyees: Contact with skin may cause sever limitation and/or corneal injury. Signs and symptoms of exposure: See Potential health effects.						
Section 12	Ecological information						
Toxicity to fish: Leponis macrochirus (bluegill) LC50: 8,350-10,650 mg/L Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (water flea), LC50: 759-3,005 mg/L Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: 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 local 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: Not applicable Shipping name: Not Regulated							
Hazard class: No Exceptions: Not		ERG Guide #		Reportable Qua	antity: No	Ma	arine pollutant: No
Section 15	Regulatory information		11				
	to be listed if the CAS number for	the anhydrous form i	is on the Inventory list.				
Compone Calcium chloride	nt	TSCA Listed	CERLCA (RQ) Not listed	RCRA code Not listed	DSL Listed	NDSL Not listed	CA Prop 65 This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						
							ered by them and must make indepen- s. NTP: National Toxicology Program.

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

SAFETY DATA SHEET

Section	۰.				
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Section 1

Identification

hand Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050

CHEMTREC 24 Hour Emergency

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

Product COPPER(II) CHLORIDE, DIHYDRATE	
Synonyms Cupric Chloride, Dihydrate	
Section 2 Hazards identification	
 Signal word: DANGER Pictograms: GHS06 / GHS09 Target organs: Respiratory system, Liver, Kidneys. Acite toxicity oral (Category 3) Skin irritation (Category 2) Eye irritation (Category 2A) Aquatic acute toxicity (Category 1) Aquatic chronic toxicity (Category 1) GHS Label information: Hazard statement: H301: Toxic if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects. 	 Precautionary statement: P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P310: IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338: IF IN EVES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse. P391: Collect spillage. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

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

Section 3	Section 3 Composition / information on ingredients						
Chemical Name		CAS #	%	EINECS			
Cupric chloride, dih	nydrate	10125-13-0	>98%	231-210-2 (anhydrous)			
Section 4	First aid measures						

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

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					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator	•						
Section 9	Physical and chemical pro	perties					
Odor: Odorless Odor threshold: D pH: Data not availa	ata not available ble point: 100°C (230°F) pomposes	Flammability (solid/gas): Not applicable Auto-ignition Explosion limits: Lower / Upper: Not applicable Decompositic Vapor pressure (mm Hg): Data not available Viscosity: Data Vapor density (Air = 1): Data not available Molecular form			on temperature: ition temperatur Data not availabl	fficient: Data not available n temperature: Data not available on temperature: Data not available ata not available. rmula: CuCl ₂ •2H ₂ O eight: 170.48	
Section 10	Stability and reactivity						
Chemical stability: Conditions to avoi	Stable d: Hygroscopic material. Avoid ex		ous polymerization: W act to extreme temperat		le materials.		
Incompatible mate	rials: Potassium, sodium, hydrazi	ne, nitromethar	ne, aluminum, strong oxi	dizers, acetylene ar	nd sodium hypo	obromite.	
Hazardous decom	oosition products: Copper oxide	s and hydrogen	chloride.				
Section 11	Toxicological information						
Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-repeated exposure: Advective information with sy							
Section 12 Ecological information Toxicity to fish: Bluegill LC50: 0.9 mg/L/96 hours Toxicity to daphnia and other aquatic invertebrates: Daphnia magna EC50: 0.04 mg/L/48 hours Toxicity to algae: Selenastrum EC50: 0.12 mg/L/96 hours Persistence and degradability: No data available Mobility in soil: 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			g			
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local 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: UN2802 Shipping name: Copper chloride Hazard class: 8 Packing group: III Reportable Quantity: 10 lbs (4.54 kg) Marine pollutant: Yes Exceptions: Limited quantity equal to or less than 5 Kg 2020 ERG Guide # 154							
Section 15 Regulatory information							
	ed to be listed if the CAS number for th		-		Del	NDO	CA D 65
Compon		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65 This product does not contain
Cupric chloride (anh	iyarous)	Listed	10 lbs (4.54 kg)	Not listed	Listed	Not listed	any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information			e			

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

SDS No.: LL0220

SAFETY DATA SHEET

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Section 1

Identification

hand

500 Greenview Court Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product	LITHIUM CHLORIDE	
Synonyms	None	
Section 2	Hazards identification	
Pictograms Target orga GHS Class Acute toxici Skin irritatio Eye irritation GHS Label H302: Harm H315: Caus	ans: Kidneys, Central nervous system, Reproductive system, Skin, Eyes	Precautionary statement: P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

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

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Lithium chloride		7447-41-8	>99%	231-212-3		
Section 4	First aid measures					

INGESTION: 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: 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 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: 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.

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. Readily absorbs moisture, keep dry.

Section 8	Exposure controls / personal protection						
Exposure Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	Lithium chloride	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/MSHAapproved respirator

approved respirator							
Section 9	Physical and chem	ical properties					
Appearance: Solid Odor: No odor. Odor threshold: D pH: 7-8 (50 g/L) Melting / Freezing Boiling point: 1383 Flash point: Data	ata not available. point: 614°C (1137°F) 2°C (2520°F)	Flammability (s Explosion limit Vapor pressure Vapor density Relative density	te (=1): Data not a solid/gas): Data not ts: Lower / Upper: I e (mm Hg): Data not (Air = 1): Data not av (Specific gravity): 2.068 832 g/L @ 20°C in v	available. Data not available available vailable	Auto-igniti Decompos Viscosity: Molecular	on temperature:	tanol / water): Low Kow: 2.66 Data not available re: Data not available. le.
Section 10	Stability and reactive	vity			1		
Chemical stability: Conditions to avoi	Stable d: Readily absorbs moist		us polymerization: ion in water is corrosi				
Incompatible mate	rials: Strong oxidizers, s	trong acids, and bromine	e trifluoride.				
Hazardous decom	position products: Hydr	rogen chloride and lithiun	n compounds.				
Section 11	Toxicological inform	nation					
IARC: No compone OSHA: No compone OSHA: No compone Ca Prop 65: This pr Reproductive toxis STOT-single expoo STOT-repeated ex Aspiration hazard Potential health ef Inhalation: Inhalatio Ingestion can also co Skin: Contact caus Eyes: Contact caus Signs and sympto functions. Exercise	fects: on of this material is irritat n may cause a rash, ringir ause kidney damage, irre es severe irritation, redne ses severe irritation, redne	at levels greater than or t at levels greater than or ny chemicals known to the ole ing to the eyes, nose and g in the ears, nausea, vo egular heartbeat, low bloc ess and swelling. Jostance may have effec o minimize potential haza	equal to 0.1% is iden equal to 0.1% is iden e State of California t d throat. poniting, diarrhea, diffi ad pressure, loss of a ts on the central nerv	ified as probable, po tified as a carcinoge o cause cancer or re culty speaking, drow opetite, thirst and cir	ossib ^l e or confii en or potential d eproductive toxi vsiness, twitchir culatory failure	rmed human carc carcinogen by OS icity. ng, visual disturba	
Section 12	Ecological informat	tion					
Toxicity to daphnia Toxicity to algae: N Persistence and do Mobility in soil: No	egradability: No data av	rtebrates: No data availa ailable Bioaccumu PBT and vi	able Ilative potential: No PvB assessment: N	o data available	or disposal.		
Section 13	Disposal considera	ations					
							ontainer. State and/or local mical disposal agency.
Section 14	Transport informat	tion					
UN/NA number: Hazard class: N Exceptions: No	ot applicable	Shipping name: N Packing group: No 2020 ERG Guide #	ot applicable	Reportable Qu	antity: No	Ма	rine pollutant: No
Section 15	Regulatory informa						
	ed to be listed if the CAS num					NDO	CA D=== 05
Compor	ent	TSCA Listed	CERLCA (RQ) Not listed	RCRA code Not listed	DSL Not listed	NDSL Not listed	CA Prop 65 This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						. op. oudouvo toxioity.

Section 16 Other information

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

SDS No.: PP0460

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

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Section 1

Identification

hand, 500 Greenview Court Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product	POTASSIUM CHLORIDE	
Synonyms	Muriate of Potash / Potassium Muriate / Potassium Monochloride	
Section 2	Hazards identification	
Pictograms	I: WARNING : No symbol required ns : None known	Precautionary statement: P312: Call a POISON CENTER or doctor if you feel unwell.
GHS Classi Acute toxicit	fication: y, oral (Category 5)	
	information: Hazard statement: be harmful if swallowed.	

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on	ingredients			
Chemical Name	CAS #	%	EINECS	
Potassium chloride Sodium chloride Calcium and Magnesium chlorides and sulfates	7447-40-7 7647-14-5 Various	95.0 - 99.5% 0.3 - 3.7% 0.2 - 1.3%	231-211-8 231-598-3 Various	

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

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

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

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

Section 6 Accidental release measures

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

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

Containment and Cleanup: 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.

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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, 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					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Particles not otherwise classified	Not established	TWA: 15 mg/m ³ total dust	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/MSHAapproved respirator.

approved respirator.							
Section 9	Physical and chemical pro	perties					
Ddor: No odor. Ddor threshold: Da pH: 5.4-10.0 (5% so Melting / Freezing po	blution) pint: 772-776°C (1423-1428°F) 0°C (2732°F) Sublimes	Flammability (s Explosion limit Vapor pressure Vapor density Relative densit	te (=1): Data not a solid/gas): Data not a ts: Lower / Upper: N e (mm Hg): Approxim (Air = 1): 2.57 y (Specific gravity): 34.2 g/100 ml water	available. Not applicable hately zero 1.986-1.990	Auto-ignitie Decompos Viscosity: Molecular		: Data not available re : Data not available
Section 10	Stability and reactivity						
Incompatible mate chloride gas. May re Steel, building mate	Stable d: Excessive temperatures and h rials: Avoid contact with hot Nitric eact violently with Bromine trifluor rials (such as cement), Bromine o position products: None known	eat. Hygroscopi c acid, may caus ide and may exp r Trifluoride. Po	e evolution of toxic Ni lode if mixed with Pot tentially explosive rea	trosyl chloride. Con assium permangana	te and Sulfurio	acid. Can react	t with most metals, such as Iro
Section 11	Toxicological information						
Respiratory or skir Germ cell mutager Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No compone Ca Prop 65: This pro	t of this product present at levels int of this product present at levels ent of this product present at level oduct does not contain any chemi ity: Data not available	le greater than or e greater than or s greater than or	qual to 0.1% is identif equal to 0.1% is ident equal to 0.1% is iden	ified as probable, po tified as a carcinoge	ssible or confir n or potential c	med human card carcinogen by OS	0 ,
STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May cau Ingestion: May cau Skin: Contact may Eyes: Contact with Signs and sympton procedures to minim	bosure: Data not available Data not available fects: Ise respiratory irritation, coughing se nausea, vomiting, diarrhea, ab cause mild irritation, redness. eyes causes mild irritation includi ms of exposure: Conditions agg nize potential hazards.	dominal crampin ng stinging, wate	g, irregular heartbeats ering and redness.			ire (hypertensior	n). Exercise appropriate
STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May cau Ingestion: May cau Skin: Contact may Eyes: Contact with Signs and sympton procedures to minim Additional informa	bosure: Data not available Data not available fects: Isse respiratory irritation, coughing se nausea, vomiting, diarrhea, ab cause mild irritation, redness. eyes causes mild irritation includi ms of exposure: Conditions agg nize potential hazards. tion: RTECS #: TS8050000	dominal crampin ng stinging, wate	g, irregular heartbeats ering and redness.			ıre (hypertensior	ı). Exercise appropriate
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STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May cau Ingestion: May cau Skin: Contact may du Eyes: Contact with Signs and symptor procedures to minin Additional informa Section 12 Toxicity to fish: Ga Toxicity to fish: Ga Toxicity to algae: S Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu regulations may bo	bosure: Data not available Data not available fects: use respiratory irritation, coughing se nausea, vomiting, diarrhea, ab cause mild irritation, redness. eyes causes mild irritation includi ms of exposure: Conditions agg nize potential hazards. tion: RTECS #: TS8050000 Ecological information ambusia affinis (fish, fresh water), and other aquatic invertebrate cenedesmus subspicatus (Algae) gradability: No data available otata available cts: An environmental hazard can Disposal considerations idelines are intended for the d e different. Dispose of in acco	dominal crampin ng stinging, wate ravated by expo LC50 = 10,000 r s: Daphnia mag , EC50 = 2,500 Bioaccum PBT and vi nnot be excluded isposal of cata	g, irregular heartbeats ering and redness. sure may include kidn mg/L/24 hours na (Crustacea), EC10 mg/L/72 hours lative potential: No PvB assessment: No I in the event of unpro	ey disorders and hig 0 = 1,010 mg/L/24 h data available fessional handling o nly. Federal regul	ih blood pressu ours r disposal. ations may a	oply to empty c	container. State and/or loca
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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

SDS No.: SS0430

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

hand Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product SODIUM CHLORIDE	
Synonyms Common Salt / Rock Salt	
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	Supplementary 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.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Sodium chloride		7647-14-5	100%	231-598-3		
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

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

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 protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Sodium chloride	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/MSHAapproved respirator.

Section 9	Physical and chem	ical properties					
Appearance: Solid Odor: No odor. Odor threshold: D pH: 4.0-9.0 Melting / Freezing Boiling point: 146 Flash point: Non o	Data not available. point: 801°C (>1473°F) 5°C (2669°F)	Flammability (s Explosion limit Vapor pressure Vapor density Relative densit	te (= 1): Data not a solid/gas): Data not a s: Lower / Upper: E e (mm Hg): 2.4 (Air = 1): Data not av y (Specific gravity): 1 g/2.8 ml water at 2	available. Data not available railable 2.16 @ 25°C	Auto-igniti Decompos Viscosity: Molecular		e: Data not available ure: Data not available
Section 10	Stability and reactive	vity					
Chemical stability Conditions to avoi	: Stable id: Wet conditions can ca		us polymerization: Vion.	Will not occur.			
Incompatible mate	erials: Strong acids.						
Hazardous decom	position products: Elec	trolysis can produce chlo	rine gas.				
Section 11	Toxicological inform	mation					
Respiratory or ski Germ cell mutage Carcinogenity: Da NTP: No componer IARC: No compone OSHA: No compone Ca Prop 65: This pi Reproductive toxi STOT-single expo	ge/irritation: Data not av in sensitization: Data no nicity: Data not available ata not available nt of this product present a ent of this product present ent of this product presen roduct does not contain au city: Data not available sure: Data not available	ot available e at levels greater than or e at levels greater than or tt at levels greater than or	equal to 0.1% is identi equal to 0.1% is iden	ified as probable, po tified as a carcinoge	essible or confir on or potential o	med human car carcinogen by O	0 ,
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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

SDS No.: SS0996

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

hand Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product STRONTIUM CHLORIDE, HEXAHYDRATE

Synonyms

s None listed

Section 2 Hazards identification

Signal word: DANGER Pictograms: GHS05 Target organs: None known



GHS Classification: Eye damage (Category 1)

GHS Label information: Hazard statement: H318: Causes serious eve damage.

H318: Causes serious eye damage.

Precautionary statement:

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / I	Composition / Information on Ingredients				
Chemical Name	CAS #	%	EINECS		
Strontium chloride	10025-70-4	100%	233-971-6 (anhydrous)		
Section 4 First aid measu	res				

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

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

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

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

Section 6 Accidental release measures

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

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

Containment and Cleanup: 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.

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 Linits.	Strontium chloride	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/MSHAapproved respirator.

approved respirator.							
Section 9 Physical and chemical p	Section 9 Physical and chemical properties						
Appearance: Solid, white crystals Odor: No odor Odor threshold: Data not available pH: Data not available Melting / Freezing point: 868°C (1594°F) Boiling point: Decomposes Flash point: Data not available	Evaporation rate (=1): Data not availablePartition coefficient: Data not availableFlammability (solid/gas): Data not availableAuto-ignition temperature: Data not availableExplosion limits: Lower / Upper: Data not availableDecomposition temperature: Data not availableVapor pressure (mm Hg): NegligibleVapor density (Air = 1): Data not availableVapor density (Air = 1): Data not availableMolecular formula: SrCl ₂ •6H ₂ ORelative density (Specific gravity): 1.933Molecular weight: 266.62				: Data not available re : Data not available le		
Section 10 Stability and reactivity							
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures and heat. Effloresces in air and deliquesces in moist air.							
Incompatible materials: None known.							
Hazardous decomposition products: May release corrosive hydrogen chloride.							
Section 11 Toxicological information	I						
Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Eyes-rabbit - Seve Respiratory or skin sensitization: Data not availa Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at level IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any cher Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May cause irritation of the respiratory tra Ingestion: Large oral doses may cause irritation of Skin: May cause irritation with redness and pain. Eyes: May cause irritation with redness and pain. Signs and symptoms of exposure: Exercise app Additional information: RTECS #: WK8575000	ble s greater than or o ls greater than o els greater than o nicals known to th nct. Symptoms m he gastrointestina	equal to 0.1% is ident r equal to 0.1% is iden e State of California t ay include coughing a al tract.	ified as probable, po ntified as a carcinoge o cause cancer or rep nd shortness of brea	ssible or confiri en or potential c productive toxic	med human card arcinogen by OS	0 ,	
Section 12 Ecological information							
Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebra Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard considerations Section 13 Disposal considerations	Bioaccum PBT and v	ulative potential: No PvB assessment: No	o data available	r disposal.			
These disposal guidelines are intended for the	disposal of cata	log-size quantities d	nly Federal regul	ations may ar	only to empty c	ontainer State and/or local	
regulations may be different. Dispose of in acc Section 14 Transport information	ordance with al	local, state and fed	eral regulations or	contract with	a licensed che	emical disposal agency.	
Hazard class:Not applicablePachExceptions:Not applicable2020	ping name: Not Regulated ing group: Not applicable I ERG Guide # Not applicable		Reportable Quantity: No		Marine pollutant: No		
Section 15 Regulatory information							
A chemical is considered to be listed if the CAS number for Component	the anhydrous form	is on the Inventory list.	RCRA code	DSL	NDSL	CA Prop 65	
Strontium chloride	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.	
Section 16 Other information							
The information contained herein is furnished without warra dent determinations of suitability and completeness of infor							

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

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