SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Rev of Ward N

"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 C | CALCIUM CHLORIDE/PHENOLPHTHALEIN SOLUTION | |
|--|--|---|
| Synonyms C | Calcium Chloride (1M) with Phenolphthalein (0.01%) | |
| Section 2 | Hazards identification | |
| Target organs: GHS Classifica Eye irritation (Ca | lo symbol required : None known ation: ategory 2B) prmation: Hazard statement: | Precautionary statement: P264: Wash hands thoroughly after handling. 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. |

Hazards not otherwise classified:

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

| Section 3 Composition | on / information on ingredients | | | |
|-----------------------|---------------------------------|---------|-----------|--|
| Chemical Name | CAS # | % | EINECS | |
| Water | 7732-18-5 | 88.20% | 231-791-2 | |
| Calcium chloride | 10043-52-4 | 11.09% | 233-140-8 | |
| Isopropyl alcohol | 67-63-0 | 0.70% | 200-661-7 | |
| Phenolphthalein | 77-09-8 | 0.01% | 201-004-7 | |
| Hydrochloric acid | 7647-01-0 | 0.0005% | 231-595-7 | |
| | | | | |
| | | | | |
| | | | | |

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 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.

Section 6 Accidental release measures

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

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

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

Section 7 Handling and storage

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

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

| Section 8 | Exposure controls / personal protection | | | | | |
|------------------|---|------------------|------------------|------------------|--|--|
| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) | | |
| Exposure Linits. | Calcium 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAnirator woodr

| Section 9 | Physical and chemic | al properties | | | | | |
|---|--|---|--|---|---|---|--|
| Odor: No odor. Odor threshold pH: Data not av Melting / Freezing Boiling point: A | 1: Data not available. | Flammability (Explosion lim Vapor pressur Vapor density er) Relative density | ate (Water = 1): <1 (solid/gas): Data not its: Lower / Upper: re (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App : Complete in water. | Data not available r) | Auto-igniti Decompos Viscosity: Molecular | | : Data not available re: Data not available. ble. e |
| Section 10 | Stability and reactivi | ty | | | | | |
| Incompatible m | lity: Stable avoid: Excessive temperatures naterials: Avoid contact with s composition products: None | which cause evaporat ulfuric acid. Flammable | | | with metals s | uch as zinc and s | sodium. |
| Section 11 | Toxicological inform | ation | | | | | |
| Respiratory or Germ cell muta Carcinogenity: NTP: No compo IARC: No compo OSHA: No comp CA Prop 65: A Reproductive t | Image/irritation: Data not avaitable skin sensitization: Data not a agenicity: Data not available onent of this product present at onent of this product present a ponent of this product present a WARNING! This product can e oxicity: Data not available posure: Data not available | available levels greater than or e t levels greater than or at levels greater than o | equal to 0.1% is ident r equal to 0.1% is iden | ified as probable, pos tified as a carcinogen | sible or confir or potential c | med human carc arcinogen by OS | |
| STOT-repeated Aspiration haza Potential health Inhalation: May Ingestion: May Skin: Contact m Eyes: Contact ro Signs and sym not available. E | exposure: Data not available ard: Data not available | est of our knowledge th s to minimize potential | | and toxicological prop | erties have no | ot been thoroughl | ly investigated. Specific dat |
| STOT-repeated Aspiration haza Potential healti Inhalation: May Ingestion: May Skin: Contact n Eyes: Contact n Signs and sym not available. E Additional info Section 12 | exposure: Data not available ard: Data not available h effects: v be harmful by inhalation. be harmful by ingestion. nay cause irritation. may cause irritation. ptoms of exposure: To the be exercise appropriate procedures rmation: RTECS #: EV98100 Ecological information | est of our knowledge th s to minimize potential 100 [Calcium chloride] on | hazards. | | erties have no | ot been thoroughl | ly investigated. Specific dat |
| STOT-repeated Aspiration haze Potential health nhalation: May yngestion: May Skin: Contact m Eyes: Contact m Signs and sym not available. E Additional info Section 12 Toxicity to fish: Toxicity to fish: Toxicity to dapl Toxicity to alga Persistence and Abbility in soil: Other adverse of | exposure: Data not available ard: Data not available h effects: // be harmful by inhalation. be harmful by ingestion. nay cause irritation. may cause irritation. ptoms of exposure: To the be exercise appropriate procedures: rmation: RTECS #: EV98100 Ecological informatio : Lepomis macrochirus (bluegi hnia and other aquatic invert te: No data available d degradability: No data available effects: An environmental haz | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 11) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluder | hazards. mg/L [Calcium chlorid na (water flea), LC50: ulative potential: No PvB assessment: No | e] 759-3,005 mg/L [Calo data available o data available | cium chloride] | | ly investigated. Specific dat |
| STOT-repeated Aspiration haze Potential health nhalation: May yngestion: May Skin: Contact n Eyes: Contact n Signs and sym not available. E Additional info section 12 Toxicity to fish: Toxicity to dapl Toxicity to dapl Toxicity to alga Persistence and Abbility in soil: Other adverse of Section 13 | exposure: Data not available ard: Data not available h effects: // be harmful by inhalation. be harmful by ingestion. may cause irritation. may cause irritation. ptoms of exposure: To the b exercise appropriate procedure: rmation: RTECS #: EV98100 Ecological informatio : Lepomis macrochirus (bluegi hnia and other aquatic invert te: No data available d degradability: No data available effects: An environmental haz Disposal considerati | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 11) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons | hazards. mg/L [Calcium chlorid na (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro | e] 759-3,005 mg/L [Calo data available o data available fessional handling or | cium chloride] disposal. | | |
| STOT-repeated Aspiration hazz Potential health nhalation: May ngestion: May Skin: Contact m Eyes: Contact m Signs and sym not available. E Additional info section 12 Toxicity to fish: Toxicity to fish: Coxicity to alga Persistence and Abbility in soil: Other adverse of Section 13 These disposa egulations ma | exposure: Data not available ard: Data not available h effects: v be harmful by inhalation. be harmful by ingestion. nay cause irritation. may cause irritation. ptoms of exposure: To the b ixercise appropriate procedure: rmation: RTECS #: EV98100 Ecological informatio te: No data available d degradability: No data avail is No data available effects: An environmental haz Disposal considerati al guidelines are intended for ay be different. Dispose of in | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 ll) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all | hazards. mg/L [Calcium chlorid na (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities of | e] 759-3,005 mg/L [Calo data available o data available fessional handling or only. Federal regula | cium chloride] disposal. tions may aj | oply to empty c | ontainer. State and/or loc |
| STOT-repeated Aspiration haze Potential healti nhalation: May yngestion: May Skin: Contact n Eyes: Contact n Signs and sym not available. E Additional info fection 12 Toxicity to fish: Toxicity to dapl Toxicity to dapl Toxicity to alga Persistence and Abbility in soil: Other adverse of Section 13 These disposa egulations ma Section 14 | exposure: Data not available ard: Data not available h effects: // be harmful by inhalation. be harmful by ingestion. may cause irritation. may cause irritation. ptoms of exposure: To the b exercise appropriate procedure: rmation: RTECS #: EV98100 Ecological informatio : Lepomis macrochirus (bluegi hnia and other aquatic invert ie: No data available d degradability: No data avaii : No data available effects: An environmental haz Disposal considerati al guidelines are intended for ay be different. Dispose of in Transport informatio | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 11) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all 00 | hazards. mg/L [Calcium chlorid ina (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro log-size quantities of local, state and fed | e] 759-3,005 mg/L [Calo data available o data available fessional handling or only. Federal regula | cium chloride] disposal. tions may aj | oply to empty c | ontainer. State and/or loo |
| STOT-repeated Aspiration hazz Potential health nhalation: May ngestion: May Skin: Contact m Eyes: Contact m Signs and sym not available. E Additional info Section 12 Foxicity to fish: Toxicity to fish: Coxicity to alga Persistence and Abbility in soil: Other adverse of Section 13 Fhese disposa egulations ma Section 14 UN/NA numb Hazard class | exposure: Data not available ard: Data not available h effects: v be harmful by inhalation. be harmful by ingestion. may cause irritation. may cause irritation. may cause irritation. ptoms of exposure: To the b ixercise appropriate procedure: rmation: RTECS #: EV98100 Ecological informatio te: No data available d degradability: No data avail No data available effects: An environmental haz Disposal considerati al guidelines are intended for ay be different. Dispose of in Transport informatio rer: Not applicable : Not applicable | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 ll) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all | hazards. mg/L [Calcium chlorid ina (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities of local, state and fed Not Regulated lot applicable | e] 759-3,005 mg/L [Calo data available o data available fessional handling or only. Federal regula | cium chloride] disposal. tions may ap contract with | oply to empty c a licensed che | ontainer. State and/or loo |
| STOT-repeated Aspiration haze Potential healti nhalation: May Skin: Contact n Eyes: Contact n Eyes: Contact n Signs and sym not available. E Additional info Section 12 Foxicity to fish: Toxicity to fish: Toxicity to dapl Toxicity to dapl Toxici | exposure: Data not available ard: Data not available h effects: v be harmful by inhalation. be harmful by ingestion. may cause irritation. may cause irritation. may cause irritation. ptoms of exposure: To the b ixercise appropriate procedure: rmation: RTECS #: EV98100 Ecological informatio te: No data available d degradability: No data avail No data available effects: An environmental haz Disposal considerati al guidelines are intended for ay be different. Dispose of in Transport informatio rer: Not applicable : Not applicable | est of our knowledge th s to minimize potential 000 [Calcium chloride] on III) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # | hazards. mg/L [Calcium chlorid ina (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities of local, state and fed Not Regulated lot applicable | e] 759-3,005 mg/L [Calo data available o data available fessional handling or only. Federal regula eral regulations or o | cium chloride] disposal. tions may ap contract with | oply to empty c a licensed che | ontainer. State and/or loo mical disposal agency. |
| STOT-repeated Aspiration hazz Potential health Inhalation: May Ingestion: May Skin: Contact m Eyes: Contact m Signs and sym not available. E Additional info Section 12 Foxicity to fish: Foxicity to fish: Foxicity to alga Persistence and Mobility in soil: Other adverse of Section 13 These disposa regulations ma Section 14 UN/NA numb Hazard class Exceptions: Section 15 A chemical is cons | | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 10) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccume PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # on | hazards. mg/L [Calcium chlorid ina (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities of local, state and fed Not Regulated lot applicable Not applicable is on the Inventory list. | e] 759-3,005 mg/L [Calo data available ofessional handling or only. Federal regula eral regulations or o Reportable Qua | cium chloride] disposal. tions may a contract with ntity: No | oply to empty co a licensed che Ma | ontainer. State and/or loo mical disposal agency. arine pollutant: No |
| STOT-repeated Aspiration haz Potential health Inhalation: May Ingestion: May Skin: Contact m Eyes: Contact m Signs and sym not available. E Additional info Section 12 Toxicity to fish: Toxicity to fish: Toxicity to alga Persistence an Mobility in soil: Other adverse of Section 13 These disposa regulations ma Section 14 UN/NA numb Hazard class Exceptions: Section 15 A chemical is cons | exposure: Data not available ard: Data not available h effects: // be harmful by inhalation. be harmful by ingestion. nay cause irritation. may cause irritation. Regulatory information mation if the CAS number ponent | est of our knowledge th s to minimize potential 000 [Calcium chloride] 00 II) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # on | hazards. mg/L [Calcium chlorid ina (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities of local, state and fed Not Regulated lot applicable Not applicable | e] 759-3,005 mg/L [Calo data available o data available fessional handling or only. Federal regula eral regulations or o | cium chloride] disposal. tions may ap contract with | oply to empty c a licensed che | ontainer. State and/or loc mical disposal agency. arine pollutant: No CA Prop 65 M WARNING -Cancer - |
| STOT-repeated Aspiration haze Potential healti Inhalation: May Skin: Contact m Eyes: Contact m Signs and sym not available. E Additional info Section 12 Toxicity to fish: Toxicity to fish: Toxicity to dapl Toxicity to dapl Toxicity to dapl Toxicity to alga Persistence an Mobility in soil: Other adverse of Section 13 These disposa Section 14 UN/NA numb Hazard class Exceptions: Section 15 Achemical is cons Com | exposure: Data not available ard: Data not available h effects: // be harmful by inhalation. be harmful by ingestion. nay cause irritation. may cause irritation. Regulatory information mation if the CAS number ponent | est of our knowledge th s to minimize potential 000 [Calcium chloride] on II) LC50: 8,350-10,650 ebrates: Daphnia mag lable Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata a accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # on er for the anhydrous form TSCA | hazards. mg/L [Calcium chlorid ina (water flea), LC50: ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities of local, state and fed Not Regulated lot applicable Not applicable is on the Inventory list. CERLCA (RQ) | e] 759-3,005 mg/L [Calo data available o data available fessional handling or only. Federal regula eral regulations or co Reportable Quar | cium chloride] disposal. tions may a contract with ntity: No DSL | oply to empty c a licensed che Ma NDSL | ontainer. State and/or loc mical disposal agency. arine pollutant: No CA Prop 65 |

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

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Aven. W

"Cutting edge science for the classroom"

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Not for drug, food or household use.

| Product | CALCIUM CHLORIDE, 1 MOLAR SOLUTION | |
|--|--|--|
| Synonyms | Calcium Chloride, Aqueous Solution | |
| Section 2 | Hazards identification | |
| Pictograms Target orga GHS Classi Eye irritation GHS Label | I: WARNING : No symbol required ns: None known fication: (Category 2B) information: Hazard statement: es eye irritation. | Precautionary statement: P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remov contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. |
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| | | |
| | | |

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 # %

| Chemical Name | | CAS # | % | EINECS | |
|------------------|--------------------|------------|--------|-----------|--|
| Water | | 7732-18-5 | 88.91% | 231-791-2 | |
| Calcium chloride | | 10043-52-4 | 11.09% | 233-140-8 | |
| | | | | | |
| | | | | | |
| | | | | | |
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| • • • | / · · | | | | |
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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.

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

| Section 8 | Exposure controls / personal protection | | | | |
|------------------|---|------------------|--------------------------------------|------------------|--|
| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) | |
| Exposure Linius. | 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

| approved respirator. | | | | | | | | |
|---|--|---|---|---|--|---------------------------------|---|--|
| Section 9 | Physical and chemical pro | perties | | | | | | |
| Odor: No odor. Odor threshold: Da pH: Data not availab Melting / Freezing point: Boiling point: Approx | or threshold: Data not available. Explosion limits: Lower / Upper: Data not available Decomposition temperature: Data not available. : Data not available. Vapor pressure (mm Hg): 14 (water) Viscosity: Data not available. ting / Freezing point: Approximately 0°C (32°F) (water) Vapor density (Air = 1): 0.7 (water) Molecular formula: Mixture Relative density (Specific gravity): Data not available Solubility(ies): Complete in water. Molecular weight: Mixture | | | | | | | |
| Section 10 | Section 10 Stability and reactivity | | | | | | | |
| Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Excessive temperatures which cause evaporation. | | | | | | | | |
| Incompatible materi | als: Avoid contact with sulfuric a | acid. Flammable | hydrogen may be ge | nerated from contact | with metals su | ich as zinc and | sodium. | |
| Hazardous decomp | osition 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 OSHA: No component Ca Prop 65: This pro Reproductive toxici STOT-single expose STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Dust may Ingestion: Low toxici Skin: Contact with si Eyes: Contact with e Signs and symptom | rat LD50: 2100 mg/kg ; Derma tion: Data not available e/irritation: Data not available sensitization: Data not available isensitization: Data not available a not available of this product present at levels to of this product present at levels to this product present at levels tre: Data not available tre: Data not available Data not available cts: cause irritation to the upper res ty if swallowed. However, large tin may cause irritation and/or de yes may cause severe irritation is of exposure: See Potential h on: RTECS #: EV9810000 [Ca | le greater than or e greater than or o s greater than or cals known to the piratory tract (no: amounts may res amounts may res afatting on prolon and/or corneal in ealth effects abo | qual to 0.1% is identii equal to 0.1% is ident equal to 0.1% is iden e State of California to se and throat). sult in gastrointestinal iged contact. jury. | ied as a known or an ified as probable, pos tified as a carcinogen o cause cancer or rep | sible or confirr a or potential ca roductive toxic | med human car arcinogen by O | 0 | |
| Section 12 | Ecological information | | | | | | | |
| Toxicity to daphnia Toxicity to algae: No Persistence and deg Mobility in soil: No | radability: No data available | s: Daphnia magr Bioaccumu PBT and vF | na (water flea), LC50: Ilative potential: No PvB assessment: No | 759-3,005 mg/L [Cald data available o data available | | | | |
| | delines are intended for the d | isposal of catal | og-size guantities of | nlv. Federal regula | tions may an | ply to empty of | container. State and/or local | |
| regulations may be | different. Dispose of in acco | | | | | | | |
| Section 14 | Transport information | | | | | | | |
| UN/NA number: Hazard class: No Exceptions: Not | t applicable Packi applicable 2020 | bing name: N ng group: No ERG Guide # | • | Reportable Qua | ntity: No | М | arine pollutant: No | |
| Section 15 | Regulatory information | e enhudrour fr | ie en the Inventore II. | | | | | |
| A chemical is considered | I to be listed if the CAS number for th nt | TSCA | IS ON THE INVENTORY LIST. | RCRA code | DSL | NDSL | CA Prop 65 | |
| Calcium 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 | | | | | | | |
| | | | | | | | 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

Page E1 of E2

Section 1

Product

Identification

INNOVATING SCIENCE®

"Cutting edge science for the classroom"

SODIUM SILICATE, 15% SOLUTION

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

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

Not for drug, food or household use.

| Synonyms Liquid Sodium Silicate / Water Glass | |
|---|--|
| Section 2 Hazards identification | |
| Signal word: WARNING Pictograms: GHS07 Target organs: Eyes, Skin CHS Classification: Acute toxicity, oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2) Eye irritation (Category 2A) STOT SE (Category 3) CHS Label information: Hazard statement(s): H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. | Precautionary statement(s): P261: Avoid breathing mist/vapours/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330: Rinse mouth. 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. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P331+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. P403+P233: Store in a well-ventilated place. Keep container tightly closed. 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 | Composition / information on | ingredients | | | |
|-----------------|------------------------------|-------------|-----|-----------|--|
| Chemical Name | | CAS # | % | EINECS | |
| Water | | 7732-18-5 | 85% | 231-791-2 | |
| Sodium silicate | | 1344-09-8 | 15% | 215-687-4 | |
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| Section 4 | First aid measures | 1 | 1 | 1 | |

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

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

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

Section 5 Fire fighting measures

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

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

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume. Do not store in aluminum containers as flammable hydrogen gas may be generated. Spill site may be slippery.

Section 6 Accidental release measures

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

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

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

| Section 7 | Handling | and |
|-----------|----------|-----|
| | | |

storage

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

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Do not store in aluminum containers as flammable hydrogen gas may be generated.

| Section 8 | Exposure controls / personal protection | | | | | |
|------------------|---|------------------|------------------|------------------|--|--|
| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) | | |
| Exposure Limits. | Sodium metasilicate | 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

| Section 9 | Physical and chem | | | | | | | |
|--|---|---|--|--|--|--|--|---|
| Odor: Slight soapy Odor threshold: D pH: Data not availa Melting / Freezing | Data not available. able point: -1°C (30°F) 1-102°C (214-216°F) | Flammability Explosion lim Vapor pressu Vapor density Relative dens | ate (= 1): Data not a (solid/gas): Data not a its: Lower / Upper: D re (mm Hg): Data not (Air = 1): Data not av ity (Specific gravity): : Complete in water. | available. Data not available available ailable | Auto-ignit Decompos Viscosity: Molecular | • | e: Data not availab u re: Data not avail ble. re | |
| Section 10 | Stability and reacti | vity | | | | | | |
| Chemical stability: Conditions to avoi | : Stable id: Excessive temperatu | | dous polymerization: ation. | Will not occur. | | | | |
| Incompatible mate | erials: Acids, prolonged of | contact with aluminum, | brass, bronze, copper, | lead, tin, zinc or othe | er alkali sensitiv | e metals or alloy | /S. | |
| Hazardous decom of heat. | position products: Prol | onged contact with inco | ompatible metals may p | roduce flammable h | ydrogen gas.(| Contact with acid | ls will cause gelling | and evolut |
| Section 11 | Toxicological infor | mation | | | | | | |
| Carcinogenity: Da NTP: No compone IARC: No compone OSHA: No compone Ca Prop 65: This pr Reproductive toxic | nt of this product present ent of this product present nent of this product prese roduct does not contain a city: Data not available | at levels greater than o at levels greater than o nt at levels greater than ny chemicals known to | or equal to 0.1% is iden or equal to 0.1% is ide | tified as probable, p entified as a carcinog | ossible or confi Jen or potential | rmed human card carcinogen by O | | |
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