GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

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

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

ALBUMIN Product Synonyms Albumin Egg Powder Hazards identification Section 2 This substance or mixture has not been classified at this time according Precautionary statement(s): to the Globally Harmonized System (GHS) of Classification and Labeling of Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective Chemicals. gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. Signal word: No data available Pictograms: No data available Target organs: None known. GHS Classification: No data available GHS Label information: Hazard statement: No data available Hazards not otherwise classified:

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

Section 3 Con	nposition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Albumin		9006-59-1	100%	232-692-7	
Section 4 First	t 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: May cause transient 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: 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.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

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 dusts. 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 protection **Chemical Name** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: None established None established. None established Albumin 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. Physical and chemical properties Section 9 Appearance: Pale yellow powder. Evaporation rate (= 1): Data not available Partition coefficient: (n-octanol / water): Data not available Odor: Characteristic bland odor. Flammability (solid/gas): Data not available Auto-ignition temperature: Data not available Odor threshold: Data not available Explosion limits: Upper / Lower: Data not available Decomposition temperature: Data not available Vapor pressure (mm Hg): Negligible. pH: Data not available Viscosity: Data not available Melting / Freezing point: Decomposes. Vapor density (Air = 1): Data not available Molecular formula: Natural product Boiling point: Decomposes. Relative density (Specific gravity): 1.035 @ 20°C Molecular weight: Natural product Flash point: Not flammable. Solubility(ies): Insoluble in water. Forms emulsion. Section 10 Stability and reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures and heat. Stable under recommended storage conditions. Incompatibilities with other materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides and potassium oxides. Section 11 Toxicological information Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/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 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: No adverse health effects expected from inhalation. Indestion: No adverse health effects expected by indestion. Skin: Not expected to be a health hazard from skin exposure. Eyes: Not expected to be a health hazard. Signs and symptoms of exposure: Contact with eyes may cause transient irritation. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: No data available Section 12 **Ecological information** Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available PBT and vPvB assessment: No data available Mobility in soil: 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: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No **Exceptions:** Not applicable 2020 ERG Guide # Not applicable Section 15 **Regulatory information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL NDSL Component TSCA CERLCA (RQ) RCRA code CA Prop 65 This product does not contain Albumin Listed Not listed Not listed Listed Not listed 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 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

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Section 1

Identification

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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	AMYLASE	
Synonyms	Bacterial Amylase (50,000 BAU/g) / Alpha-Amylase / α-Amylase	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi Respiratory GHS Label Hazard stat	Ins: None known.	 Precautionary statement: P261: Avoid breathing dust. P284: Wear respiratory protection. P304+P340: IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor. 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

Chemical Name CAS #			
	%	EINECS	
Calcium carbonate1317-65-3Amylase9000-90-2Starch, potato9005-25-8	85-95% 3-8% 2-7%	215-279-6 232-565-6 232-679-6	

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 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: 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.

Section 8

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

Exposure controls / personal protection

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 dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: None established None established. None established Amylase 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. Physical and chemical properties Section 9 Appearance: Pale yellow powder. Evaporation rate (= 1): Data not available Partition coefficient: (n-octanol / water): Data not available Odor: Characteristic bland odor. 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Section 11 Toxicological information Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/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 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: May cause respiratory tract irritation. Ingestion: No adverse health effects expected by ingestion. Skin: May cause allergic reactions. Eyes: May cause irritation. Signs and symptoms of exposure: May cause coughing, symptoms similar to a cold. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: Data not available Section 12 **Ecological information** Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: 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: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No **Exceptions:** Not applicable 2020 ERG Guide # Not applicable Section 15 **Regulatory information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL RCRA code NDSL Component TSCA CERLCA (RQ) CA Prop 65 This product does not contain Amylase Listed Not listed Not listed Not listed Not listed 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 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

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

BIURET TEST REAGENT (for protein test) Product Synonyms Biuret Reagent Solution / Biuret Reagent / Biuret Solution Hazards identification Section 2 Signal word: DANGER Precautionary statement: Pictograms: GHS05 P260: Do not breathe mist/vapours/spray. Target organs: Respiratory tract, gastrointestinal tract, eyes, skin. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P363: Wash contaminated clothing before reuse. **GHS Classification:** P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for Skin corrosion (Category 1A) breathing. Eye damage (Category 1) P310: Immediately call a POISON CENTER or doctor. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove GHS Label information: Hazard statement: contact lenses, if present and easy to do. Continue rinsing H314: Causes severe skin burns and eye damage. 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	90.03%	231-791-2	
Sodium hydroxide		1310-73-2	6.42%	215-185-5	
Potassium sodium tartr	ate	6381-59-5	2.00%	206-156-8	
Cupric sulfate, pentahy	drate	7758-99-8	1.18%	231-847-6	
Potassium iodide		7681-11-0	0.35%	231-659-4	
Ethylenediaminetetraad	cetic acid	6381-92-6	0.02%	None assigned.	

Section 4 First aid measures

INGESTION: MAY BE FATAL 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 SEVERE DAMAGE. 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 SEVERE BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Dry chemical, water spray, alcohol foam. Can react with carbon dioxide to form sodium carbonate.

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. Contact with metals can generate hydrogen gas.

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.

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 prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linius.	Sodium hydroxide	STEL: C 2 mg/m ³	TWA: 2 mg/m ³	STEL: C 2 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

Section 9						
Occupii J	Physical and chemical pro	operties				
Appearance: Clear, Odor: No odor. Odor threshold: No pH: Data not availal Melting / Freezing p Boiling point: ~ 100 Flash point: Not fla	ot applicable. ole. point: ~ 0°C (~ 32°F) [water] 0°C (212°F) [water]	Evaporation rate (Water = 1): < 1 Flammability (solid/gas): Not applic Explosion limits: Lower / Upper: N Vapor pressure (mm Hg): 14 [water] Vapor density (Air = 1): 0.7 [water] Relative density (Specific gravity): ' Solubility(ies): Complete in water.	ot applicable	Auto-ignition	temperature on temperatu ata not availat mula: Mixtur	e
Section 10	Stability and reactivity			1		
	d: Can react with carbon dioxide		Vill not occur.			
		pounds, organic nitro compounds.				
Hazardous decomp	oosition products: Sodium oxic	le. Reacts with metals to form flammab	le and explosive hyo	lrogen gas.		
Section 11	Toxicological information					
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	t of this product present at levels nt of this product present at level ent of this product present at level oduct does not contain any chem ity: Data not available ure: Data not available posure: Data not available	greater than or equal to 0.1% is identifi s greater than or equal to 0.1% is identif Is greater than or equal to 0.1% is ident iicals known to the State of California to	fied as probable, pos tified as a carcinoge	ssible or confirme n or potential care	ed human care cinogen by O	
Potential health eff Inhalation: May be Ingestion: May be h Skin: May be harmf Eyes: Causes eye b Signs and sympton edema, burning sen and upper respirator	harmful if inhaled. Material is ext harmful if swallowed. iul if absorbed through skin. Caus burns. Causes severe eye burns. ns of exposure: Spasm, inflam	mation and edema of the larynx, spasm tis, shortness of breath, headache, naus	n, inflammation and o	edema of the broi	nchi, pneumo	
Potential health eff Inhalation: May be Ingestion: May be h Skin: May be harmf Eyes: Causes eye b Signs and sympton edema, burning sen and upper respirator	ects: harmful if inhaled. Material is ext larmful if swallowed. iul if absorbed through skin. Caus burns. Causes severe eye burns. ms of exposure: Spasm, inflam sation, cough, wheezing, laryngi y tract, eyes, and skin.	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus	n, inflammation and o	edema of the broi	nchi, pneumo	
Potential health eff Inhalation: May be Ingestion: May be h Skin: May be harmf Eyes: Causes eye b Signs and symptor edema, burning sen and upper respirator Additional informa Section 12 Toxicity to fish: LC Toxicity to fish: LC Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No	ects: harmful if inhaled. Material is ext harmful if swallowed. ul if absorbed through skin. Caus ourns. Causes severe eye burns. ms of exposure: Spasm, inflam sation, cough, wheezing, laryngi y tract, eyes, and skin. tion: RTECS #: WB4900000 [S Ecological information 50 - Gambusia affinis (Mosquito and other aquatic invertebrate lo data available gradability: No data available of data available sts: An environmental hazard ca	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus	a, inflammation and d sea, vomiting. Mate le] .38 mg/l - 48 h [Sodi data available data available	edema of the broi rial is extremely o um hydroxide]	nchi, pneumo	
Potential health eff Inhalation: May be Ingestion: May be h Skin: May be harmf Eyes: Causes eye b Signs and symptor edema, burning sen and upper respirator Additional informa Section 12 Toxicity to fish: LC Toxicity to fish: LC Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effet	acts: harmful if inhaled. Material is extiarmful if swallowed. iul if absorbed through skin. Cause users actions of exposure: sation, cough, wheezing, laryngir y tract, eyes, and skin. tion: RTECS #: WB4900000 [S Ecological information 250 - Gambusia affinis (Mosquito and other aquatic invertebrate to data available igradability: No data available citat avail	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus sodium hydroxide] fish) - 125 mg/l - 96 h [Sodium hydroxid es: Immobilization EC50 - Daphnia - 40. Bioaccumulative potential: No of PBT and vPvB assessment: No annot be excluded in the event of unprof	i, inflammation and d sea, vomiting. Mate de] .38 mg/l - 48 h [Sodi data available data available fessional handling of	edema of the bron rial is extremely o um hydroxide] disposal.	nchi, pneumo destructive to	tissue of the mucous membranes
Potential health eff Inhalation: May be I Ingestion: May be harm Eyes: Causes eye I Signs and sympton edema, burning sen and upper respirator Additional informa Section 12 Toxicity to fish: LC Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu	ects: harmful if inhaled. Material is ext harmful if swallowed. ul if absorbed through skin. Caus ourns. Causes severe eye burns. ns of exposure: Spasm, inflam sation, cough, wheezing, laryngi y tract, eyes, and skin. tion: RTECS #: WB4900000 [S Ecological information 350 - Gambusia affinis (Mosquito and other aquatic invertebrate to data available gradability: No data available o data available cts: An environmental hazard ca Disposal considerations idelines are intended for the o	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus odium hydroxide] fish) - 125 mg/l - 96 h [Sodium hydroxid es: Immobilization EC50 - Daphnia - 40. Bioaccumulative potential: No of PBT and vPvB assessment: No	a, inflammation and d sea, vomiting. Mate de] .38 mg/l - 48 h [Sodi data available data available iessional handling of nly. Federal regula	edema of the bron rial is extremely o um hydroxide] disposal. ations may appl	nchi, pneumo destructive to	tissue of the mucous membranes
Potential health eff Inhalation: May be I Ingestion: May be harm Eyes: Causes eye I Signs and sympton edema, burning sen and upper respirator Additional informa Section 12 Toxicity to fish: LC Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu	ects: harmful if inhaled. Material is ext harmful if swallowed. ul if absorbed through skin. Caus ourns. Causes severe eye burns. ns of exposure: Spasm, inflam sation, cough, wheezing, laryngi y tract, eyes, and skin. tion: RTECS #: WB4900000 [S Ecological information 350 - Gambusia affinis (Mosquito and other aquatic invertebrate to data available gradability: No data available o data available cts: An environmental hazard ca Disposal considerations idelines are intended for the o	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus codium hydroxide] fish) - 125 mg/l - 96 h [Sodium hydroxid es: Immobilization EC50 - Daphnia - 40. Bioaccumulative potential: No PBT and vPvB assessment: No annot be excluded in the event of unprof	a, inflammation and d sea, vomiting. Mate de] .38 mg/l - 48 h [Sodi data available data available iessional handling of nly. Federal regula	edema of the bron rial is extremely o um hydroxide] disposal. ations may appl	nchi, pneumo destructive to	tissue of the mucous membranes
Potential health eff Inhalation: May be I Ingestion: May be I Skin: May be harmf Eyes: Causes eye I Signs and symptor edema, burning sen and upper respirator Additional informa Section 12 Toxicity to fish: LC Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Mobility in soil: No Other adverse effect Section 13 These disposal gur regulations may be Section 14 UN/NA number: Hazard class: 8	ects: harmful if inhaled. Material is ext harmful if swallowed. ul if absorbed through skin. Caus ourns. Causes severe eye burns. ns of exposure: Spasm, inflam sation, cough, wheezing, laryngi y tract, eyes, and skin. tion: RTECS #: WB4900000 [S Ecological information 250 - Gambusia affinis (Mosquito and other aquatic invertebrate to data available gradability: No data available data available cts: An environmental hazard ca Disposal considerations idelines are intended for the o e different. Dispose of in accord Transport information	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus sodium hydroxide] fish) - 125 mg/l - 96 h [Sodium hydroxid es: Immobilization EC50 - Daphnia - 40. Bioaccumulative potential: No PBT and vPvB assessment: No annot be excluded in the event of unprof disposal of catalog-size quantities of ordance with all local, state and feder name: Sodium hydroxide solution roup: II Reportat	n, inflammation and d sea, vomiting. Mate de] .38 mg/l - 48 h [Sodi data available data available iessional handling of nly. Federal regul eral regulations or	edema of the bron rial is extremely of um hydroxide] disposal. ations may appl contract with a	nchi, pneumo destructive to ly to empty o licensed che	tissue of the mucous membranes
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Potential health eff Inhalation: May be I Ingestion: May be harmf Eyes: Causes eye I Signs and symptor edema, burning sen and upper respirator Additional informa Section 12 Toxicity to fish: LC Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Toxicity to daphnia Section 12 These disposal gur regulations may be Section 14 UN/NA number: Hazard class: 8 Exceptions: Lim Section 15 A chemical is considered	acts: harmful if inhaled. Material is ext. harmful if swallowed. ul if absorbed through skin. Cause users actions norms. Causes severe eye burns. ns of exposure: spasmin, cause severe eye burns. stain, cough, wheezing, laryngi y tract, eyes, and skin. stool at available gradability: odata available odata available cts: henvironmental hazard ca Disposal considerations idelines are intended for the ca offferent. Dispose of in acco Transport information UN1824 Shipping	ses skin burns. mation and edema of the larynx, spasm tis, shortness of breath, headache, naus Sodium hydroxide] fish) - 125 mg/l - 96 h [Sodium hydroxid es: Immobilization EC50 - Daphnia - 40. Bioaccumulative potential: No PBT and vPvB assessment: No annot be excluded in the event of unprof disposal of catalog-size quantities of ordance with all local, state and feder name: Sodium hydroxide solution roup: II Reportat 5 than 1 L 2020 ERC the anhydrous form is on the Inventory list.	a, inflammation and d sea, vomiting. Mate de] .38 mg/l - 48 h [Sodi data available data available fersional handling or hly. Federal regula- eral regulations or ble Quantity: 1,0 G Guide # 154	edema of the bron rial is extremely of um hydroxide] disposal. ations may appl contract with a 00 lbs (454 kg)	nchi, pneumo destructive to ly to empty c licensed che	tissue of the mucous membranes container. State and/or local emical disposal agency. arine pollutant: No

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

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Section 1

Identification

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HYDROCHLORIC ACID, 0.1 MOLAR (0.1 NORMAL) SOLUTION Product Synonyms Muriatic Acid, Water Solution / Hydrogen Chloride, Water Solution Section 2 Hazards identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Target organs: Respiratory system, skin, eyes, lungs. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. GHS Classification: P332+P313: If skin irritation occurs: Get medical attention. Skin irritant (Category 3) P337+P313: If eye irritation persists: Get medical attention. Eye irritant (Category 2B) GHS Label information: Hazard statement(s): 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

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Hydrochloric acid		7732-18-5 7647-01-0	99.68% 0.314%	231-791-2 231-595-7	
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. 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.

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 prot	ection			
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Linits.	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/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

Section 1 Physical and chemical properties Operance: Clear, colorides lquid. Partition coefficient: (nocland / mate): No data available Physical and available physical available Partition coefficient: (nocland / mate): No data available Physical available Oddr Threshold: No data available physical available Filammability (solid(gas): No data available Physical available Partition coefficient: (nocland / mate): No data available Physical available Melting / Freeing point: ~ 007C (212°F) [water] Biling point: ~ 1007C (212°F) [water] Partition coefficient: (nocland / mater): No data available Physical available Section 10 Stability and reactivity Partition coefficient: (nocland / mater): No data available Physical available Chemical stability: Stable Hazrdous polymerization: Vill not occur. Molecular formala: Notwine. Conditions to avoid: Containers may burst when heated. Avoid contact with water. Not colored available Not colored available Hazardous decomposition products: Hydrogen chloride gas. Section 11 Toxicological information Section 11 Toxicological information Section 11 Toxicological information Regression/Physical and available This dilution. Section 11 Toxicological information Section 11 Toxicological information Section 11 Section 11 Section 12 <t< th=""></t<>
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Containers may burst when heated. Avoid contact with water. Incompatible materials: Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, amines, carbonates, cyanides, sulfides, sulfides, formaldehyde. Hazardous decomposition products: Hydrogen chloride gas. Section 11 Toxicological information Acute toxicity: Data not available Skin corrosion/irritation: Data not available at this dilution. Serious eye damage/irritation: Data not available at this dilution. Serious eye damage/irritation: Data not available Germ cell mutagenicity: Data not available This is dentified as a carcinogen or potential carcinogen by NTP. IAC: Group 3: Not classifiable as to its carcinogenicity to humans. 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: Data not available Appriation to the available Store and this active toxicity. Aspiration hazard: Data not available Appriation hazard: Data not available Appriation to available STOT-repeated exposure: Data not available Appriston not available Appriston ton avai
Conditions to avoid: Containers may burst when heated. Avoid contact with water. Incompatible materials: Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, amines, carbonates, cyanides, sulfides, sulfides, sulfides, discrete disc
formaldehyde. Hazardous decomposition products: Hydrogen chloride gas. Section 11 Toxicological information Acute toxicity: Data not available Skin corrosion/irritation: Data not available at this dilution. Serious eye damage/irritation: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available CARC: Group 3: Not classifiable as to its carcinogenicity to humans. 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 NTP. IARC: Group 3: Not classifiable as to its carcinogenicity to humans. 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-repeted exposure: Data not available Aptertial the after structure of this product present at his dilution. STOT-repeted exposure: Data not available Aptertial the after structure of our knowledge the chemical, physical and toxicological properties have not been thoroughly inv
Acute toxicity: Data not available Skin corrosion/irritation: Data not available at this dilution. Serious eye damage/irritation: Data not available at this dilution. Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available NP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. IARC: Group 3: Not classifiable as to its carcinogenicity to humans. 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 Aspiration hazard: Data not available Potential health effects: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available Stin: May be harmful if inhaled. Material may cause irritation to the tissue of the mucous membranes and upper respiratory tract. Inplation: May be harmful if swallowed. Skin: May cause irritation and/or burms. Eyes:
Acute toxicity: Data not available Skin corrosion/irritation: Data not available at this dilution. Serious eye damage/irritation: Data not available at this dilution. Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available Carcinogenity: Data not available No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. IARC: Group 3: Not classifiable as to its carcinogenicity to humans. 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-repeted exposure: Data not available Aspiration hazard: Data not available Potential health effects: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available Stim: May be harmful if inhaled. Material may cause irritation to the tissue of the mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed. Skin: May cause irritation and/or burms. Eyes: Ma
Toxicity to fish: LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)
Toxicity to algae: No data available Bioaccumulative potential: No data available Persistence and degradability: No data available Bioaccumulative potential: 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: Not applicable Packing group: Not applicable Reportable Quantity: Marine pollutant: No Exceptions: Not applicable 2020 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 the anhydrous form is on the Inventory list.
Component TSCA CERLCA (RQ) RCRA code DSL NDSL CA Prop 65
Hydrochloric acid, 0.1M Listed Not listed In 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 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

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Section 1

Identification

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IODINE-POTASSIUM IODIDE SOLUTION Product Synonyms Iodine-Iodide / Iodine Solution / Iodine Lugol's Dilute / Gram's Iodine Solution / Dilute Lugol's Solution Section 2 Hazards identification Signal word: WARNING Precautionary statement(s): Pictograms: GHS07 / GHS09 P261: Avoid breathing mist/vapours/spray. Target organs: Thyroid, kidneys, endocrine system, skin, eyes, P271: Use only outdoors or in a well-ventilated area. reproductive system, central nervous system. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap P312: Call a POISON CENTER or doctor if you feel unwell. P362+P364: Take off contaminated clothing and wash it before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for GHS Classification: breathing. Acute toxicity, dermal (Category 4) P391: Collect spillage. Acute toxicity, inhalation (Category 4) P501: Dispose of contents/container to a licensed chemical disposal agency in Aquatic toxicity, acute (Category 1) accordance with local/regional/national regulations. GHS Label information: Hazard statement(s): H312: Harmful in contact with skin. H332[.] Harmful if inhaled H400: Very toxic to aquatic life.

Hazards not otherwise classified:

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

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Potassium iodide Iodine		7732-18-5 7681-11-0 7553-56-2	95.10% 3.05% 1.85%	231-791-2 231-659-4 231-442-4	
Section 4	First aid measures				

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. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Harmful if inhaled

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: HARMFUL IN CONTACT WITH SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Harmful in contact with skin.

Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

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

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

Section 6 Accidental release measures

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

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

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

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

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 vapors, mist or spray. Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 8 Exposure controls / personal protection **Chemical Name** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: TWA: 0.01 ppm^(IFV)/ STEL: 0.1 ppm^(V) Iodine CAS # 7553-56-2 STEL: C 0.1 ppm/C 1 mg/m³ STEL: C 0.1 ppm/C 1 mg/m³ Engineering controls: Facilities storing or utilizing this material should be equipped with an evewash 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. Physical and chemical properties Section 9 Appearance: Deep amber liquid. Evaporation rate (Water = 1): < 1 Partition coefficient: (n-octanol / water): Not applicable Odor: Characteristic odor Flammability (solid/gas): Not applicable. Auto-ignition temperature: Not applicable Odor threshold: Not applicable. Explosion limits: Lower / Upper: Not applicable Decomposition temperature: Data not available. Vapor pressure (mm Hg): 14 [water] Viscosity: Data not available. pH: Data not available Melting / Freezing point: ~ 0°C (~ 32°F) [water] Vapor density (Air = 1): 0.7 [water] Molecular formula: Mixture Boiling point: ~ 100°C (212°F) [water] Relative density (Specific gravity): 1.0 [water] Molecular weight: Mixture Flash point: Not flammable. Solubility(ies): Complete in water. Section 10 Stability and reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Stable under recommended storage conditions. Excessive temperatures which cause evaporation. Incompatibilities with other materials: Metals or unsaturated organic compounds, ammonia solutions or alkaline solutions of ammonia salts. Will form explosive nitrogen iodides when reacted with gaseous ammonia. Hazardous decomposition products: Toxic iodide fumes Section 11 **Toxicological information** Acute toxicity: Oral-Rat LD50: 14,000 mg/kg [lodine CAS # 7553-56-2] Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Inhalation-rat 3.1 mg/m³ / 24 hour / 13 weeks - continuous [lodine CAS # 7553-56-2] Germ cell mutagenicity: Data not available Carcinogenity: Data not available IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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 NTF 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: Symptoms include cough, wheezing, and labored breathing. Symptoms may be delayed. Ingestion: Causes abdominal pain, diarrhea, nausea, and vomiting. Ingestion of levels of 2-3 grams of iodine may cause death. Skin: Contact may cause redness and pain. Eyes: Contact causes watering of the eyes, redness and pain. Signs and symptoms of exposure: Effects of short-term exposure: Lachrymator. The substance is severely irritating to the eyes and the respiratory tract, and is irritating to the skin. Inhalation of the vapor may cause asthma-like reactions. Inhalation of the vapor may cause lung edema. The effects may be delayed. Effects of long-term exposure: Repeated or prolonged contact may cause skin sensitization in rate cases. Repeated or prolonged inhalation exposure may cause asthma-like syndrome. The substance may have effects on the thyroid. Specific data not available for this mixture. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: NN1575000 [lodine CAS # 7553-56-2] Section 12 Ecological information Toxicity to fish: Very toxic to aquatic life. Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: 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. **Disposal considerations** Section 13 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: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Section 15 **Regulatory information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. CERLCA (RQ) RCRA code DSL NDSL Component TSCA CA Prop 65 This product does not contain lodine Listed Not listed Not listed Listed Not listed any chemicals known to the State Potassium iodide Listed Not listed Not listed Listed Not listed of California to cause cancer or reproductive toxicity. 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,

Form 06/2015

ERG: Emergency Response Guidebook

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Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

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

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

OLIVE OIL Product

Synonyms Sweet Oil

Hazards identification Section 2

Signal word: WARNING Pictograms: GHS07 Target organs: None known.



GHS Classification: Skin sens. (Category 1)

GHS Label information: Hazard statement(s):

H317: May cause an allergic skin reaction.

Precautionary statement(s):

P261: Avoid breathing mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap P333+P313: If skin irritation or rash occurs: 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 EINECS **Chemical Name** CAS # Olive oil 8001-25-0 100% 232-277-0

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: DO NOT USE WATER. 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: Remove all sources of ignition. 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.

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. Keep away from ignition sources.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Olive oil	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 chen	nical properties					
Appearance: Clea Odor: Delicate odo Odor threshold: D pH: Data not availa Melting / Freezing	ar, pale green-yellow liquid or. Data not available. able. point: -6°C (21°F) I not boil @ 760 mm°	d. Evaporation Flammability Explosion lir Vapor press Vapor densit Relative den	rate (=1): Data not / (solid/gas): Data not nits: Lower / Upper: ure (mm Hg): Data not ty (Air = 1): Data not a sity (Specific gravity): s): Insoluble in water.	available. Data not available t available vailable	Auto-igniti Decompos Viscosity: Molecular		: 343°C (650°F) ASTM-E659 Ire: Data not available. ble. not available
Section 10	Stability and react	ivity					
Chemical stability Conditions to avo	 r: Stable bid: Excessive temperatu 		dous polymerization: flame and other source				
Incompatible mate	erials: Strong oxidizers.						
Hazardous decom	nposition products: Oxi	des of carbon.					
Section 11	Toxicological infor	mation					
Germ cell mutage Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No compone Ca Prop 65: This p Reproductive toxi	in sensitization: Data n enicity: Data not available lata not available nt of this product present ent of this product present nent of this product present roduct does not contain a icity: Data not available	e at levels greater than o t at levels greater than nt at levels greater than	or equal to 0.1% is iden or equal to 0.1% is ide	tified as probable, po ntified as a carcinoge	ssible or confi n or potential (rmed human care carcinogen by OS	0 ,
STOT-repeated ex Aspiration hazard Potential health ef Inhalation: Low haz Ingestion: Low haz Skin: Prolong or re Eyes: Contact may	boure: Data not available cposure: Data not available ffects: azard for usual industrial h zard for usual industrial h epeated contact may cause y cause transient irritatior	ble nandling. andling. se irritation and/or derm 1.					
STOT-repeated ex Aspiration hazard Potential health ef Inhalation: Low haz Ingestion: Low haz Skin: Prolong or re Eyes: Contact may Signs and sympto Additional information	besure: Data not available coosure: Data not available ffects: azard for usual industrial h azard for usual industrial h peated contact may caus y cause transient irritation coms of exposure: See F ation: RTECS #: RK430	ble andling. andling. se irritation and/or derm n. otential health effects a 20000					
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STOT-repeated ex Aspiration hazard Potential health ef Inhalation: Low ha Ingestion: Low haz Skin: Prolong or re Eyes: Contact may Signs and sympto Additional inform Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to daphni Toxicity to daphni Toxicity to algae: I Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal gregulations may b Section 14 UN/NA number: Hazard class: N Exceptions: No	besure: Data not available coosure: Data not available ffects: azard for usual industrial h appeated contact may caus y cause transient irritation coms of exposure: See F intion: RTECS #: RK430 Ecological informat to data available is and other aquatic invo No data available degradability: No data available dets: An environmental h Disposal consider uidelines are intended be different. Dispose o Transport informat Not applicable to applicable ot applicable	ble andling. andling. se irritation and/or derm b. Potential health effects a b0000 ation ertebrates: No data ava vailable Bioaccur PBT and azard cannot be exclud ations for the disposal of ca f in accordance with a stion Shipping name: Packing group: I 2020 ERG Guide a	ailable mulative potential: No vPvB assessment: No led in the event of unpre- talog-size quantities of all local, state and feo Not Regulated Not applicable	lo data available ofessional handling o only. Federal regul	ations may a contract with	i à licensed che	
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STOT-repeated ex Aspiration hazard Potential health ef Inhalation: Low ha Ingestion: Low haz Skin: Prolong or re Eyes: Contact may Signs and sympto Additional inform Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to daphni Toxicity to daphni Toxicity to algae: I Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal gr regulations may b Section 14 UN/NA number: Hazard class: N Exceptions: No Section 15	besure: Data not available coosure: Data not available ffects: azard for usual industrial h appeated contact may caus y cause transient irritation coms of exposure: See F intion: RTECS #: RK430 Ecological informat to data available is and other aquatic invo No data available degradability: No data available dets: An environmental h Disposal consider uidelines are intended be different. Dispose o Transport informat Not applicable to applicable ot applicable to applicable Regulatory inform red to be listed if the CAS nu	ble andling. andling. se irritation and/or derm b. Potential health effects a b0000 ation ertebrates: No data ava vailable Bioaccur PBT and azard cannot be exclud ation for the disposal of ca f in accordance with a stion Shipping name: Packing group: I 2020 ERG Guide a ation	ailable mulative potential: No vPvB assessment: N led in the event of unpri talog-size quantities of all local, state and feo Not Regulated Not Regulated Not applicable # Not applicable	lo data available ofessional handling o only. Federal regul deral regulations or	ations may a contract with	i à licensed che	emical disposal agency.

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Roc 21 Roc

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

P501: Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations.

PANCREATIN-BILE SALTS Product Synonyms Pancreatin-Bile Salt Concentrate Section 2 Hazards identification Signal word: DANGER Precautionary statement: Pictograms: GHS07 / GHS08 P261: Avoid breathing dust. Target organs: None known. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection/ hearing protection. P284: Wear respiratory protection. **GHS Classification:** P302+P352: IF ON SKIN: Wash with plenty of water and soap. Skin irrit. (Category 2) [H315] P304+P340: IF INHALED: Remove person to fresh air and keep in a position Eye irrit. (Category 2A) [H319] comfortable for breathing Resp. sens. (Category 1) [H334] P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove STOT - SE (Category 3) [H335] contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. GHS Label information: Hazard statement: P332+P313: If skin irritation occurs: Get medical attention. H315: Causes skin irritation. P337+P313: If eye irritation persists: Get medical attention. H319: Causes serious eye irritation. P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. P362+P364: Take off contaminated clothing and wash it before reuse. H335: May cause respiratory irritation. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.

Hazards not otherwise classified:

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

Chemical Name					
onennear Name		CAS #	%	EINECS	
Pancreatin powder Bile salts*		8049-47-6 None assigned	95.24% 4.76%	232-468-9 None assigned	
*Contains principally sod	dium salts of Glycolic and Tauroch	olic acids.			

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

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Dust dispersed in air becomes explosive when exposed to ignition source.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

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

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 dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 8 Exposure controls / personal protection Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Pancreatin 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. Physical and chemical properties Section 9 Appearance: Yellow-green solid Flammability (solid/gas): Data not available Decomposition temperature: Data not available Odor: Pungent odor Explosion limits: Upper: / Lower: Data not available Viscosity: Data not available Vapor pressure (mm Hg): Negligible Odor threshold: Data not available Molecular formula: Natural product Vapor density (Air = 1): Data not available pH: Data not available Molecular weight: Natural product Relative density (Specific gravity): Data not available Melting / Freezing point: Decomposes Boiling point: Decomposes Solubility(ies): Slightly in water Partition coefficient: (n-octanol / water): Data not available Flash point: Data not available Auto-ignition temperature: Data not available Evaporation rate (= 1): Data not available Stability and reactivity Section 10 Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures and heat. Stable under recommended storage conditions. Incompatibilities with other materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides, nitrogen oxides and sulfur oxides. Section 11 **Toxicological information** Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/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 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: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Causes respiratory tract irritation. May cause allergic respiratory reaction. May be harmful if inhaled. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Skin: Causes skin irritation. May cause skin sensitization and/or an allergic reaction. Eyes: Causes eye irritation. Signs and symptoms of exposure: Inhalation of this material can cause the respiratory irritation, allergic or asthmatic reaction. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: RT9033000 [Pancreatin] Section 12 Ecological information Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: 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: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No **Exceptions:** Not applicable 2020 ERG Guide # Not applicable Section 15 **Regulatory information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. NDSL RCRA code DSL CA Prop 65 Component TSCA CERLCA (RQ) This product does not contain Pancreatin Listed Not listed Not listed Not listed Not listed 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 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

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc

"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	PEPSIN (1:10,000)	
Synonyms	Pepsinum	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi Skin irrit. (C Eye irrit. (Ca Resp. sens. STOT - SE GHS Label H315: Caus H319: Caus H334: May of	d: DANGER s: GHS07 / GHS08 ans: None known. fication: ategory 2) [H315] ategory 2) [H315] ategory 2) [H319] (Category 1) [H334] (Category 1) [H335] information: Hazard statement: es skin irritation. es serious eye irritation. cause allergy or asthma symptoms or breathing difficulties if inhaled. cause respiratory irritation.	 Precautionary statement: P261: Avoid breathing dust P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P284: Wear respiratory protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical attention. P304+P340: IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor. 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. P312: Call a POISON CENTER or doctor if you feel unwell. P362+P364: Take off contaminated clothing and wash it before reuse. 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		
Pepsin (1:10,000)		9001-75-6	100%	232-629-3		
Section 4	First aid moasures					

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

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Dust dispersed in air becomes explosive when exposed to ignition source.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 8

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

Exposure controls / personal protection

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

Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Pepsin 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. Physical and chemical properties Section 9 Appearance: Yellow-tan solid Evaporation rate (= 1): N/A Partition coefficient: (n-octanol / water): N/A Odor: No odor Flammability (solid/gas): N/A Auto-ignition temperature: N/A Odor threshold: N/A Explosion limits: Upper: N/A Lower: N/A pH: N/A Vapor pressure (mm Hg): Negligible Decomposition temperature: N/A Melting / Freezing point: >100°C (212°F) Vapor density (Air = 1): N/A Viscosity: N/A Boiling point: Decomposes Relative density (Specific gravity): N/A Molecular formula: Natural product Flash point: N/A Solubility(ies): > 50 g/100 ml water Molecular weight: Natural product Section 10 Stability and reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures and heat. Stable under recommended storage conditions. Incompatibilities with other materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides. Section 11 **Toxicological information** Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/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 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: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Causes respiratory tract irritation. May cause allergic respiratory reaction. May be harmful if inhaled. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Skin: Causes skin irritation. May be harmful if absorbed through skin. Eves: Causes eve irritation. Signs and symptoms of exposure: Inhalation of this material can cause the respiratory irritation, allergic or asthmatic reaction. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: SC6132000 Section 12 **Ecological information** Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: 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: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No **Exceptions:** Not applicable 2020 ERG Guide # Not applicable **Regulatory information** Section 15 A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL NDSL RCRA code CA Prop 65 Component TSCA CERLCA (RQ) This product does not contain Pepsin Listed Not listed Not listed Listed Not listed 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 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

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Section 1

Identification

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

1% PHENOLPHTHALEIN IN ISOPROPYL ALCOHOL SOLUTION Product Synonyms 1% Phenolphthalein in IPA Section 2 Hazards identification Signal word: DANGER Precautionary statement(s): Pictograms: GHS02 / GHS07 / GHS08 P201: Obtain special instructions before use. Target organs: Central nervous system, Liver, Kidneys. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. GHS Classification: P243: Take precautionary measures against static discharge. Flammable liquid (Category 2) P260: Do not breathe mist/vapours/spray. Eve irritation (Category 2) P264: Wash hands thoroughly after handling STOT-SE (Category 2) P271: Use only outdoors or in a well-ventilated area. Mutagenicity (Category 2) P280: Wear protective gloves/protective clothing/eye protection/face protection. Carcinogen (Category 1B) P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated Reproductive toxicity (Category 2) clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep in a position GHS Label information: Hazard statement(s): comfortable for breathing H225: Highly flammable liquid and vapour. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove H319: Causes serious eye irritation. contact lenses, if present and easy to do. Continue rinsing. H336: May cause drowsiness or dizziness. P312: Call a POISON CENTER or doctor if you feel unwell. H341: Suspected of causing genetic defects. P308+P313: IF exposed or concerned: Get medical attention. H350: May cause cancer. P337+P313: If eye irritation persists: Get medical attention. H361: Suspected of damaging fertility. P362+P364: Take off contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water

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		
Isopropyl alcohol Water Phenolphthalein		67-63-0 7732-18-5 77-09-8	70% 29% 1%	200-661-7 231-791-2 201-004-7		
Section 4	First aid measures					

spray to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

accordance with local/regional/national regulations.

P501: Dispose of contents/container to a licensed chemical disposal agency in

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. 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. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

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. 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.

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, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure controls / personal prof	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m ³	TWA: 400 ppm / STEL: 500 ppm

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

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

Section 9							
	Physical and chemical pro	perties					
Boiling point: Appr	dor. Data not available.	Flammability (s Explosion limit Vapor pressure Vapor density (Relative density (te (Butyl acetate = 1): solid/gas): Data not a s: Lower / Upper: 29 e (mm Hg): 33 mm @: Air = 1): 2.1 [Pure IP/ Specific gravity): 0.8* Complete in water.	vailable. % / 12% [Pure IPA] 20°C [Pure IPA]	Auto-ignitio Decompos Viscosity: Molecular	n temperature: 39	re
Section 10	Stability and reactivity						
Chemical stability	/: Stable	Hazardo	us polymerization: W	Vill not occur.			
	bid: Excessive temperatures, heat			0			
·	erials: Strong oxidizing materials,	,	ums, metals, nitroform,	, oleum, chlorinated	compounds o	an react vigorous	sly with this alcohol.
Hazardous decon	nposition products: Oxides of ca	rbon.					
Section 11	Toxicological information						
)ral-rat LD50: >2000 mg/kg ; Inhala	tion-rat LC50: >5	000 ppm/1hr [leoprop	anoll			
CA Prop 65: A WA Reproductive tox STOT-single expo STOT-repeated ex	nent of this product present at leve ARNING! :This product can expose :icity: Data not available >sure: The substance or mixture i xposure: Data not available	e you to Phenolph	thalein, which is known	n to the State of Čali	fornia to caus	se cancer.	
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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.

CORROSIVE STORAGE CODE WHITE

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Section 1

Identification

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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.

Product	SODIUM HYDROXIDE, 0.1 MOLAR (0.1N) SOLUTION	
Synonyms	Sodium Hydroxide, Water Solution (0.1M)	
Section 2	Hazards identification	
Signal word Pictograms Target orga GHS Classi Skin irritation Eye Irritation GHS Label H316: Cause	d: WARNING : None required ins: Respiratory tract, gastrointestinal tract, eyes, skin.	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. P332+P313: If skin irritation occurs: Get medical attention. 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 / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Water Sodium hydroxide		7732-18-5 1310-73-2	99.6% 0.4%	231-791-2 215-185-5		
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: 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: CAUSES MILD 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: Dry chemical, water spray, alcohol foam. Can react with carbon dioxide to form sodium carbonate.

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. Contact with metals can generate hydrogen gas.

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.

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.	Sodium hydroxide	STEL: C 2 mg/m ³	TWA: 2 mg/m ³	STEL: C 2 mg/m ³			

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

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

Section 9						
	Physical and chemical pro	operties				
	lot applicable. able. point: ~ 0°C (~ 32°F) [water] 00°C (212°F) [water]	Evaporation rate (Water = 1): < 1 Flammability (solid/gas): Not applicate Explosion limits: Lower / Upper: Not Vapor pressure (mm Hg): 14 [water] Vapor density (Air = 1): 0.7 [water] Relative density (Specific gravity): 1.0 Solubility(ies): Complete in water.	t applicable	Auto-igniti Decompos Viscosity: Molecular	on temperature	re
Section 10	Stability and reactivity					
Chemical stability Conditions to avo	: Stable id: Can react with carbon dioxide	Hazardous polymerization: Wi e to form sodium carbonate.	ll not occur.			
•		npounds, organic nitro compounds. de. Reacts with metals to form flammable	and explosive hyd	rogen gas.		
Section 11	Toxicological information					
Germ cell mutage Carcinogenity: Da NTP: No componential IARC: No componential OSHA: No componential OSHA: No componential OSHA: No componential SHA: No componential SHA: State Stat	nt of this product present at levels ent of this product present at level ent of this product present at leve	s greater than or equal to 0.1% is identified s greater than or equal to 0.1% is identifie els greater than or equal to 0.1% is identifi nicals known to the State of California to c	ed as probable, pos ied as a carcinogen	sible or confir or potential c	med human car arcinogen by O	0,
Aspiration hazard Potential health ef Inhalation: No data Ingestion: No data Skin: Causes irrita Eyes: Causes sligf Signs and symptc Specific data is not	Data not available ffects: a available for this dilution. available for this dilution. tion upon prolonged or repeated nt irritation. ons of exposure: To the best of	our knowledge the chemical, physical and procedures to minimize potential hazards.		erties have no	ot been thorough	nly investigated at this dilution.
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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

GENERAL STORAGE CODE GREEN

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Section 1

Identification

by Aldon INNOVATING SCIENCE

"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	STARCH, SOLUBLE, POTATO	
Synonyms	Amylodextrin / Amylogen	
Section 2	Hazards identification	
This substa to the Globb Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label Hazard stat	ance or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of	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.
	ot otherwise classified: ards not otherwise classified (HHNOC) - Combustible dust	

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Starch, soluble		9005-84-9	100%	232-686-4		
Section 4	First aid measures	1	1	1		

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. Dust dispersed in air becomes explosive when exposed to ignition sources.

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.

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 pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Starch (9005-25-8)	TWA: 10 mg/m ³ (A4)	TWA: 15 mg/m ³ (Total dust)	TWA: 10 mg/m ³ (Total dust)

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.

	Dhysical and shan	nical properties						
Section 9	Physical and chen	incui properties						
Appearance: Solid Odor: Bland odor. Odor threshold: D pH: Data not availa Melting / Freezing Boiling point: Data Flash point: Data	Data not available. able. point: Data not available a not available	e Flammability Explosion lin Vapor pressu Vapor density Relative density	rate (= 1): Data not a (solid/gas): Data not nits: Lower / Upper: 1 re (mm Hg): Data not ((Air = 1): Data not ar sity (Specific gravity):): 5 g/100 ml water @	available. Data not available : available vailable 1.45	Auto-ignitie Decompos Viscosity: Molecular		: 410°C (770°F) [cloud re: Data not available. ble. ₀ O ₅) _n	-
Section 10	Stability and react	ivity						
Chemical stability	: Stable	- Hazaro	lous polymerization:	Will not occur				
-	id: Excessive temperatu				practices which	produce dust.		
Incompatible mate	erials: No data available							
Hazardous decom	position products: Nor	ne.						
Section 11	Toxicological infor	rmation						
Acute toxicity: Da	-							
-	itation: Data not availab	ble						
	ge/irritation: Data not a							
•	in sensitization: Data no							
	nicity: Data not available							
Carcinogenity: Da	ata not available							
NTP: No componer	nt of this product present	at levels greater than or	equal to 0.1% is identi	fied as a known or a	inticipated carci	nogen by NTP.		
	ent of this product presen							
	ent of this product preser	0		0		0 ,	SHA.	
	roduct does not contain a	any chemicals known to	the State of California t	o cause cancer or re	eproductive toxi	city.		
•	city: Data not available							
• ·	sure: Data not available							
	posure: Data not availa	lole						
Achirotion bozord	Doto not ovoilablo							
	: Data not available							
Potential health ef	ffects:		denosits in the nasal n	assaues				
Potential health ef Inhalation: Inhalati	ffects: on of high concentrations	s may cause unpleasant	deposits in the nasal p	assages.				
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Potential health ef Inhalation: Inhalati Ingestion: Ingestio Skin: No hazard kr Eyes: Contact with Signs and sympto Additional informa Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to algae: I Persistence and d	ffects: on of high concentrations n may cause stomach irri nown. n eyes may cause irritatio oms of exposure: See F ation: RTECS #: GM50 Ecological informa to data available a and other aquatic inver- No data available egradability: No data available	s may cause unpleasant itation. Potential health effects a 190000 [Starch 9005-25- ation ertebrates: No data ava vailable Bioaccur	bove. 8] ilable nulative potential: No	o data available				
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