Section 1	Identification		Page E1
	vating Science [®] by Aldon Corport Itting edge science for the classroom	Aug NIV 11111 0100	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	CRYSTAL VIOLET, 1% AQUEOUS SOLUTION		
Synonyms	Crystal Violet Ammonium Oxalate Solution		
Section 2	Hazards identification		
Pictograms Target orga GHS Classi Acute toxicit Eye irritation Carcinogeni Aquatic acut Aquatic acut H303: May I H320: Caus H351: Susp H401: Toxic	d: WARNING :: GHS08 / GHS09 ins: None known. (at 2007 28) information: Hazard statement(s): be harmful if swallowed. es eye irritation. ected of causing cancer. to aquatic life. to aquatic life with long lasting effects.	P202: Do not handle P264: Wash hands t P273: Avoid release P280: Wear protectiv P305+P351+P338: Remove contact lens P337+P313: If eye in P312: Call a POISO P391: Collect spillag P405: Store locked u P501: Dispose of co	I instructions before use. e until all safety precautions have been read and understood. thoroughly after handling. to the environment. ve gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. ses, if present and easy to do. Continue rinsing. rritation persists: Get medical attention. N CENTER or doctor if you feel unwell. je.

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 Crystal violet Ammonium oxalate		7732-18-5 548-62-9 1113-38-8	98.9% 1.0% 0.1%	231-791-2 208-953-6 214-202-3	
Section 4	First aid moasuros				

Section 4 First aid measures

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

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

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

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

Section 5

Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

Exposure Limits:	Chemical Na	ame	ACGIH (TL	_V)	C	OSHA (PEL)		NIOSH (REL)
Exposure Limits.	None applica	ble	None establis	shed	No	one established	Ł	None established
	ls: Facilities storing or ut lasses, goggles, or faces	0		,		,		guishing material. Personnel concentrations low.
Respiratory protect approved respirator.	ion: None should be nee	eded in normal la	boratory handling at ro	om temperature	s. If misty c	onditions pre	vail, work in fume	hood or wear a NIOSH/MSHA
Section 9	Physical and chemi	cal properties						
	ta not available. ole. Approximately 0°C (32°F) (w kimately 100°C (212°F) (wa	ater) Relative	ation rate (Water = 1) ability (solid/gas): Da ion limits: Lower / Up pressure (mm Hg): 14 lensity (Air = 1): 0.7 (density (Specific gravity ity(ies): Complete in w	ata not available oper: Data not a 4 (water) (water)): Approximatel	available	Auto-ignit Decompos Viscosity: Molecular	•	Data not available r e: Data not available. e.
Section 10	Stability and reactiv	rity						
Chemical stability: Conditions to avoid	Stable : Excessive temperature		azardous polymeriza vaporation.	tion: Will not o	ccur.			
Incompatibilities with	th other materials: Stro	ong oxidizers.						
Hazardous decomp	osition products: Carb	on oxide, nitroge	n oxides.					
Section 11	Toxicological inform	nation						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No component OSHA: No component CA Prop 65: A WAR Reproductive toxici STOT-single exposes STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: May be ha Skin: Contact may be ha Skin: Contact with e Signs and symptom not available. Exerci	of this product present a t of this product present a t of this product present NING! :This product can ty: Data not available ure: Data not available Data not available Data not available ects: armful if inhaled. armful if swallowed. ause irritation. types may cause irritation. the of exposure: To the l se appropriate procedure tion: RTECS #: B09000	ailable available t levels greater th at levels greater at levels greater expose you to C le best of our knowl as to minimize po 000 [Crystal viole	than or equal to 0.1% is than or equal to 0.1% rystal violet, which is kn edge the chemical, phy tential hazards.	s identified as p is identified as a nown to the Sta	robable, pos a carcinogen le of Califorr	sible or confii or potential d nia to cause c	rmed human carci carcinogen by OS ancer.	5,
Section 12	Ecological informat	ion						
Toxicity to algae: No Persistence and deg Mobility in soil: No	and other aquatic inver o data available gradability: No data ava	ailable Bioa PBT	accumulative potentia and vPvB assessme	ent: No data ava	ailable	disposal.		
Section 13	Disposal considera	tions						
regulations may be	different. Dispose of	in accordance						ontainer. State and/or local nical disposal agency.
Section 14	Transport informat			1				
UN/NA number: Hazard class: No Exceptions: Not	ot applicable	Packing grou	 ne: Not Regulated up: Not applicable uide # Not applicable 	Repor	table Qua	ntity: No	Ма	rine pollutant: No
Section 15	Regulatory informat							
	d to be listed if the CAS num	ber for the anhydro						
Compone	nt		CA CERLCA (I		A code	DSL	NDSL	
Crystal violet		Lis	ted Not liste	d Not	listed	Listed	Not listed	A WARNING -Cancer - www.P65Warnings.ca.gov.
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

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.	None applicable	None established	None established	None established

Section 7 Handling and storage

GENERAL STORAGE CODE GREEN

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Identification

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Product	NUTRIENT AGAR	
Synonyms	Not applicable	
Section 2	Hazards identification	
to the Glob Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label Hazard stat Precautiona	1: Not classified :: Not classified ins: None known fication: Not classified information: ement: Not classified ary statement: Not classified	Supplemental information: Do not breathe mist/vapours/spray. 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: rds not otherwise classified (HHNOC) - Not Known	

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	ection 3 Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Water Agar Peptone Beef extract, bacterio	ological	7732-18-5 9002-18-0 91079-38-8 None assigned	97.7% 1.5% 0.5% 0.3%	231-791-2 232-658-1 None assigned None assigned		

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: 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

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

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

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

Section 6 Accidental release measures

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

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

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	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linnes.	Agar	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/MSHA-

ERG: Emergency Response Guidebook.

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Section 9 Appearance: Tan g Odor: Characteristi	Dhysical and shamical						
•••	Physical and chemical	properties					
Odor threshold: D pH: Data not availa	c odor of cooked meat. ata not available. ble. point: Data not available a not available	Flammability (s Explosion limit Vapor pressure Vapor density (Relative density (<pre>te (= 1): Data not a olid/gas): Data not s: Lower / Upper: 1 (mm Hg): Negligibl Air = 1): Data not av Specific gravity): Data Soluble in water.</pre>	available. Data not available e ⁄ailable	Auto-ignitie Decompos Viscosity: Molecular f		: Data not available I re: Data not available. ble. e
Section 10	Stability and reactivity						
Chemical stability: Conditions to avoi	Stable d: Excessive temperatures, he		us polymerization: me and other source				
ncompatible mate	rials: Strong oxidizers, alkalie	es.					
Hazardous decom	position products: Oxides of	carbon.					
Section 11	Toxicological information	on					
Germ cell mutagei Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No componer Reproductive toxic STOT-single expose STOT-repeated exp Aspiration hazard: Potential health ef Inhalation: No spec Ingestion: No spec	It of this product present at leven nt of this product present at leven ent of this product present at leven city: Data not available sure: Data not available posure: Data not available : Data not available fects: cific hazard known. ific hazard known.	els greater than or e /els greater than or e	equal to 0.1% is ident	ified as probable, po	ssible or confir	med human car	
Signs and sympto not available. Exerc	eyes may cause irritation.	minimize potential h		and toxicological pro	perties have no	ot been thorough	nly investigated. Specific data i
Eyes: Contact with Signs and sympto not available. Exerci	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to	minimize potential h		and toxicological pro	perties have no	ot been thorough	ily investigated. Specific data i
Eyes: Contact with Signs and sympto not available. Exern Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to daphnia Toxicity to algae: Not Persistence and do Mobility in soil: Not Other adverse effe Section 13 These disposal gu	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to ation: RTECS #: AW7950000 Ecological information to data available a and other aquatic invertebr No data available egradability: No data available to data available cts: An environmental hazard Disposal consideration:	minimize potential h [Agar] ates: No data availa Bioaccumu PBT and vP cannot be excluded s e disposal of catal	azards. ble lative potential : No vB assessment : N in the event of unpro og-size quantities of	data available o data available ofessional handling o only. Federal regu	or disposal. lations may aj	pply to empty c	container. State and/or local
Eyes: Contact with Signs and sympto not available. Exern Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to daphnia Toxicity to algae: Not Persistence and do Mobility in soil: Not Other adverse effe Section 13 These disposal gu	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to tition: RTECS #: AW7950000 Ecological information to data available a and other aquatic invertebr vo data available egradability: No data available o data available cts: An environmental hazard Disposal considerations uidelines are intended for the	minimize potential h [Agar] ates: No data availa Bioaccumu PBT and vP cannot be excluded s e disposal of catal	azards. ble lative potential : No vB assessment : N in the event of unpro og-size quantities of	data available o data available ofessional handling o only. Federal regu	or disposal. lations may aj	pply to empty c	nly investigated. Specific data is container. State and/or local emical disposal agency.
Eyes: Contact with Signs and sympto not available. Exern Additional informa Section 12 Toxicity to fish: Net Toxicity to daphnia Toxicity to daphnia Toxicity to algae: Net Persistence and de Mobility in soil: Net Other adverse effe Section 13 These disposal guregulations may b	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to tition: RTECS #: AW7950000 Ecological information o data available a and other aquatic invertebr to data available egradability: No data available o data available cts: An environmental hazard Disposal consideration: uidelines are intended for the e different. Dispose of in ac Transport information Not applicable Sh lot applicable Pa	minimize potential h [Agar] ates: No data availa Bioaccumu PBT and vP cannot be excluded s e disposal of catal	ble lative potential: No vB assessment: N in the event of unpro- og-size quantities of local, state and fec ot Regulated ot Regulated ot applicable	data available o data available ofessional handling o only. Federal regu	r disposal. lations may a contract with	oply to empty c a licensed che	container. State and/or local
Eyes: Contact with Signs and sympto not available. Exern Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to daphnia Toxicity to dapae: N Persistence and de Mobility in soil: Not Other adverse effe Section 13 These disposal guregulations may b Section 14 UN/NA number: Hazard class: N Exceptions: Not Section 15	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to ation: RTECS #: AW7950000 Ecological information to data available a and other aquatic invertebr No data available egradability: No data available o data available cts: An environmental hazard Disposal consideration: didelines are intended for the e different. Dispose of in ac Transport information Not applicable Sh lot applicable Pa ot applicable 20 Regulatory information	minimize potential h [Agar] ates: No data availa e Bioaccumu PBT and vP cannot be excluded s e disposal of catal coordance with all ipping name: N cking group: No 16 ERG Guide #	azards. ble Iative potential: No vB assessment: N in the event of unpro og-size quantities of local, state and feo ot Regulated ot Regulated ot applicable Not applicable	data available o data available fessional handling o only. Federal regu eral regulations or	r disposal. lations may a contract with	oply to empty c a licensed che	container. State and/or local emical disposal agency.
Eyes: Contact with Signs and sympto not available. Exern Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to daphnia Section 12 Mexers and Comparison Section 15 A chemical is consider	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to ation: RTECS #: AW7950000 Ecological information to data available a and other aquatic invertebr No data available egradability: No data available o data available cts: An environmental hazard Disposal consideration: didelines are intended for the e different. Dispose of in acc Transport information Not applicable Sh lot applicable Pa ot applicable 20 Regulatory information ed to be listed if the CAS number for	minimize potential h [Agar] ates: No data availa e Bioaccumu PBT and vP cannot be excluded s e disposal of catal ccordance with all ipping name: N cking group: No 16 ERG Guide # or the anhydrous form	azards. ble lative potential: No vB assessment: N in the event of unpro og-size quantities of local, state and feo ot Regulated ot Regulated ot applicable Not applicable s on the Inventory list.	data available o data available ofessional handling o only. Federal regu eral regulations of Reportable Qu	or disposal. lations may a contract with antity: No	oply to empty c a licensed che	container. State and/or local emical disposal agency. arine pollutant: No
Eyes: Contact with Signs and sympto not available. Exern Additional informa Section 12 Toxicity to fish: Not Toxicity to daphnia Toxicity to daphnia Toxicity to dapae: N Persistence and de Mobility in soil: Not Other adverse effe Section 13 These disposal guregulations may b Section 14 UN/NA number: Hazard class: N Exceptions: Not Section 15	eyes may cause irritation. ms of exposure: To the best cise appropriate procedures to ation: RTECS #: AW7950000 Ecological information to data available a and other aquatic invertebr No data available egradability: No data available o data available cts: An environmental hazard Disposal consideration: didelines are intended for the e different. Dispose of in acc Transport information Not applicable Sh lot applicable Pa ot applicable 20 Regulatory information ed to be listed if the CAS number for	minimize potential h [Agar] ates: No data availa e Bioaccumu PBT and vP cannot be excluded s e disposal of catal coordance with all ipping name: N cking group: No 16 ERG Guide #	azards. ble Iative potential: No vB assessment: N in the event of unpro og-size quantities of local, state and feo ot Regulated ot Regulated ot applicable Not applicable	data available o data available fessional handling o only. Federal regu eral regulations or	r disposal. lations may a contract with	oply to empty c a licensed che	container. State and/or local emical disposal agency.

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Section 1 Identification

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Product IODINE-POTASSIUM IODIDE SOLUTION	
Synonyms Iodine-Iodide / Iodine Solution / Iodine / Iodine Lugol's Dilute / O	Gram's lodine Solution / Dilute Lugol's Solution
Section 2 Hazards identification	
Signal word: WARNING Pictograms: GHS07 / GHS09 Target organs: Thyroid, kidneys, endocrine system, skin, eyes, eproductive system, central nervous system. Image: Comparison of the system of the system. Image: Comparison of the system of the system of the system of the system. Image: Comparison of the system of the system of the system. Image: Comparison of the system of the system of the system. Image: Comparison of the system of the system. Image: Comparison of the system of the system. Image: Comparison of the system of the system of the system. Image: Comparison of the system of the system of the system. Image: Comparison of the system of the system of the system. Image: Comparison of the system of the system of the system. Image: Comparison of the system of the system.	Precautionary statement(s): P261: Avoid breathing mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. 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 fo breathing. P312: Call a POISON CENTER or doctor if you feel unwell. P3912: Call a POISON CENTER or doctor if you feel unwell. P3912: Collect spillage. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

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

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water 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				

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.

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.

Storage: Store in a cool, well-ventilated area away from incompatible substances. 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 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. 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. pH: Data not available. Vapor pressure (mm Hg): 14 [water] Viscosity: 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 eve 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 NTP 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. 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 2016 ERG Guide # Not applicable **Exceptions:** 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, ERG: Emergency Response Guidebook

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Section 1

SAFETY DATA SHEET

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Identification

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METHYLENE BLUE CHLORIDE, 1% AQUEOUS SOLUTION Product Synonyms Methylene Blue Chloride, Water Solution Section 2 Hazards identification Signal word: WARNING Precautionary statement(s): Pictograms: No symbol required P312: Call a POISON CENTER or doctor if you feel unwell. Target organs: None known **GHS Classification:** Acute toxicity, oral (Category 5) GHS Label information Hazard statement(s): H303: May be harmful if swallowed.

Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients						
Chemical Name	CAS #	%	EINECS			
Water Methylene blue chloride Sodium benzoate, as preservative	7732-18-5 61-73-4 532-32-1	98.8% 1.0% 0.2%	231-791-2 200-515-2 208-534-8			
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 CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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					
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Methylene blue chloride	None established.	None established.	None established.		

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

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

Section 9 Physical and chemical pr	operties	
Appearance: Dark blue liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~100°C (212°F) (water) Flash point: Data not available.	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available. Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.1 Solubility(ies): Complete in water.	Partition coefficient: Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability and reactivity		

tion 10 Stability and reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions.

Incompatibilities with other materials: Strong oxidizing materials and reducers

Hazardous decomposition products: Suflur oxides, nitrogen oxides, hydrogen chloride gas.

Section 11 **Toxicological information**

Acute toxicity: Oral-rat LD50: 1180 mg/kg [Methylene blue chloride] / Oral-rat LD50: 2100 mg/kg [Sodium benzoate]

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:

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.

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 irritation.

Ingestion: May be harmful if swallowed. Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

Signs and symptoms of exposure: 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 #: SP5740000 [Methylene blue chloride] / DH6650000 [Sodium benzoate]

Section 12 Ecological information

Toxicity to fish: No data available

Mobility in soil: 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

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 ency.

regulations may be different. Dispose of	in accordance with all	local, state and fed	eral regulations or	contract with	a licensed che	emical disposal agency.
Section 14 Transport information	tion					
UN/NA number: Not applicable Hazard class: Not applicable Exceptions: Not applicable	Shipping name: No Packing group: No 2016 ERG Guide #	ot applicable	Reportable Qua	antity: No	Ma	arine pollutant: No
Section 15 Regulatory informa	ition					
A chemical is considered to be listed if the CAS nur	nber for the anhydrous form i	is on the Inventory list.				
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Methylene blue chloride Sodium benzoate	Listed Listed	Not listed Not listed	Not listed Not listed	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16 Other information						
The information contained herein is furnished witho			,		0	, , , , , , , , , , , , , , , , , , , ,

make indepentional Toxicology Program, of suita bility and complete nformation from all sources to assure proper use of the materials and the safety and health of employees. NTP 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 Corporation

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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	SAFRANIN O, 1% AQUEOUS SOLUTION	
Synonyms	Safranin O, Water Solution	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi Eye irritation GHS Label	t: WARNING : None assigned ns: None known fication: n (Category 2B) information: Hazard statement(s): es eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.

Hazards not otherwise classified:

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

Section 3 Composition / informatio	n on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Safranin O, biological stain (C.I. #50240) Sodium benzoate, preservative	7732-18-5 477-73-6 532-32-1	98.9% 1.0% 0.2%	231-791-2 207-518-8 208-534-8	
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 CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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					
Exposuro Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Safranin O	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 chemical pr	operties	
Appearance: Dark red-brown liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: ~0°C (32°F) (water) Boiling point: ~100°C (212°F) (water) Flash point: Data not available.	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available. Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.1 Solubility(ies): Complete in water.	Partition coefficient: Data not available. Auto-ignition temperature: Data not available. Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability and reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Stable under recommended storage conditions. Protect form light.

Incompatibilities with other materials: Strong oxidizing materials.

Hazardous decomposition products: Nitrogen oxides, hydrogen chloride gas.

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:

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.

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 irritation.

Ingestion: May be harmful if swallowed. Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

Signs and symptoms of exposure: 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 #: SG1623000 [Safranin O] / DH6650000 [Sodium benzoate]

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

Bioaccumulative potential: No data available Persistence and degradability: No data available Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Section 13 **Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14	Transport into	rmation	
UN/NA number:	Not applicable	Shipping name:	Not Regulated

Hazard class: Not applicable Exceptions: Not applicable	Packing group: No 2016 ERG Guide #		Reportable Qu	antity: No	M	arine pollutant: No
Section 15 Regulatory inform	ation					
A chemical is considered to be listed if the CAS nu	umber for the anhydrous form i	is on the Inventory list.				
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Safranin O Sodium benzoate	Listed Listed	Not listed Not listed	Not listed Not listed	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other information

The information contained herein is furnished without 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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	ting Science [®] by Aldon Corporation ng 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 E1	THYL ALCOHOL, DENATURED, 95%		
Synonyms Et	hanol, Denatured, 95%		
Section 2	Hazards identification		
Target organs: Comparison of the second sec	I (Category 2) al (Category 3) irmal (Category 3) nalation (Category 3) tegory 2B) jory 2) jory 3) rmation: Hazard statement: nmable liquid and vapour. allowed. intact with skin. erious eye irritation.	P233+P235: Keep conta P240: Ground/bond cont P241: Use explosion-pro P242: Use only non-spar P243: Take precautionar P260: Do not breathe mi P264: Wash hands thoro P270: Do not eat, drink of P271: Use only outdoors P280: Wear protective gl P301+P310: IF SWALLC P305+P351+P338: IF IN Remove contact lenses, P303+P361+P353: IF OI clothing. Rinse skin with P304+P340: IF INHALED breathing. P308+P311: IF exposed P337+P313: If eye irritati P361+P364: Take off imr P370+P378: In case off spray to extinguish. P403+P405: Store in a w P501: Dispose of conten	y measures against static discharge. st/vapours/spray. pughly after handling. or smoke when using this product. s or in a well-ventilated area. loves/protective clothing/eye protection/face protection. DWED: Immediately call a POISON CENTER or doctor. N EYES: Rinse cautiously with water for several minutes. if present and easy to do. Continue rinsing. N SKIN (or hair): Take off immediately all contaminated

Physical hazards not otherwise classified (PHNOC) - Not Known

Ethyl alcohol 64-17-5 80.75 Isopropyl alcohol 67-63-0 Water 7732-18-5	% EINECS
Isopropyl alcohol 67-63-0 Water 7732-18-5	
Water 7732-18-5	- 81.51% 200-578-6
	8.55% 200-661-7
Methanol 67-56-1 3.80	5.00% 231-791-2
) - 4.08% 200-659-6
Methyl isobutyl ketone 108-10-1 0.85	5 - 0.95% 203-550-1

Section 4 First aid measures

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

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

Section 5 Fire fighting measures

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

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

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

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 protection					
Exposure Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Ethanol	STEL: 1000 ppm / 1880 mg/m ³ (A3)	TWA: 1000 ppm / 1900 mg/m ³	TWA: 1000 ppm / 1900 mg/m ³		

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

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

approved respirator			, ,			,	
Section 9	Physical and chemical pro	perties					
Appearance: Clear Odor: Mild characte Odor threshold: Di pH: Data not availa Melting / Freezing p Boiling point: 74-8 Flash point: 5°C (4	eristic odor. ata not available. ble. point: -114°C (-173°F)* 0°C (165.2-176°F)*	Flammability Explosion lim Vapor pressur Vapor density Relative density	ate (Butyl acetate = 1) (solid/gas): Data not a its: Lower / Upper: 4 re (mm Hg): Ca 50 @ (Air = 1): Ca 1.5* (Specific gravity): 0.791§ : Soluble in water.	available. .0%(V) / 20.0%(V)* 20°C*	Auto-igniti Decompos Viscosity: Molecular	on temperature:	: Data not available.
Section 10	Stability and reactivity						
Incompatible mate	Stable d: Excessive temperatures, heat rials: Strong oxidizers, inorganic position products: Oxides of ca	, sparks, open fl acids and halog					
Section 11	Toxicological information						
 Skin corrosion/irritation: Skin-rabbit - Slight irritant. Serious eye damage/irritation: Eyes-rabbit - Severe irritant. 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 classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol] 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: ▲ WARNINGI: 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: ▲ WARNINGI: This product can expose you to chemicals including Methanol and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm. Reproductive toxicity: Data not available STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. STOT-repeated exposure: Data not available Potential health effects: Inhalation: Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Ingestion: longestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma. Skin: Contact with skin causes irritation defatting on prolonged contact. Eyes: Contact with skin causes lindness. Signs and symptoms of exposure: See Potential health effects above. Additional information: RTECS #: KQ6300000 [Ethanol] 							
Section 12	Ecological information	•					
Toxicity to daphnia Toxicity to algae: C Persistence and de Mobility in soil: No	ncorhynchus mykiss (fish, fresh w a and other aquatic invertebrate Chlorella pyrenoidosa (Algae), EC egradability: No data available o data available cts: An environmental hazard ca	es: Daphnia mag 50 = 9,310 mg/l Bioaccum PBT and v	gna (Crustacia), EC50 /growth rate [Ethanol, a ulative potential: No /PvB assessment: No	= 10,800 mg/l/24 hou absolute] data available o data available	-	9.8% pure]	
Section 13	Disposal considerations						
	idelines are intended for the o e different. Dispose of in acco						
Section 14	Transport information						
UN/NA number: Hazard class: 3 Exceptions: Lin	UN1170 Shipping a Packing g nited quantity equal to or less	•	Reportal	ble Quantity: 5,00 G Guide # 127	00 lbs (2270) kg) Mar	ine pollutant: No
Section 15	Regulatory information						
	ed to be listed if the CAS number for t	•			D0'	NDC	
Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	
Ethanol Methanol Isopropanol		Listed Listed Listed	Not listed 5,000 lbs. Not listed	D001 U154 Not listed	Listed Listed Listed	Not listed Not listed Not listed	WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
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.