SDS No.: MM0449

SAFETY DATA SHEET

FLAMMABLE STORAGE CODE RED

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hand

Product

Identification

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

METHYLENE BLUE DYE, 1% ALCOHOL SOLUTION

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

 hary statement: b away from heat/sparks/open flames/hot surfaces. No smoking. 5: Keep container tightly closed. Keep cool. and/bond container and receiving equipment. explosion-proof electrical/ventilating/lighting equipment. only non-sparking tools. b precautionary measures against static discharge. not breathe mist/vapours/spray. h hands thoroughly after handling. not eat, drink or smoke when using this product. only outdoors or in a well-ventilated area. r protective gloves/protective clothing/eye protection/face protection. D: IF SWALLOWED: Immediately call a POISON CENTER or doctor. 1+P353: IF IN EYES: Rinse cautiously with water for 15 minutes. Remov ses, if present and easy to do. Continue rinsing. 1+P353: IF ON SKIN (or hair): Take off immediately all contaminated inse skin with water/shower. D: IF INHALED: Remove person to fresh air and keep comfortable for 1: IF exposed or concerned: Call a POISON CENTER or doctor. 3: If eye irritation persists: Get medical attention. 4: Take off immediately all contaminated clothing and wash it before reus 8: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or wate tinguish. 5: Store in a well-ventilated place. Store locked up. ose of contents/container to a licensed chemical disposal agency in e with local/regional/national regulations.
ex 40 sp

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	
Ethyl alcohol, denatur	ed*	64-17-5	99%	200-578-6	
Methylene blue chloride		61-73-4	1%	200-515-2	
<u>*Denaturants:</u>					
Isopropyl alcohol		67-63-0		200-661-7	
Water		7732-18-5		231-791-2	
Methanol		67-56-1		200-659-6	
Methyl isobutyl ketone	9	108-10-1		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.

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.

Section 7 Handling and storage

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

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

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
	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/MSHAnirator

Section 9 Physical and chamical properties Operation: Clice, Elus liquid (bit characteristic dori: Odd r threshold; Lan data valiable, thild; characteristic dori: Odd r threshold; Lan data valiable, Mithing / Treasmap off; 114 C (173 °F) (173 °F) Particle coefficient: (bit coef	approved respirator.							
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Chancia stability: Stable Heardous polymerization: Will not occur: Conditions to avoid: Excessive temperatures, heat, spank span fame and other sources of spation. Incompatible methalis: Strong outgreaters in the sources of spation. Station 11 Toxicological information Station 12 Conditions to avoid: Excessive temperatures, heat, spank spatiality in the sources of spation. Section 11 Toxicological information Station 12 Station 12 Station 12 Control toxicological information Station 22 Station 23 Station 23 Station 23 Respiratory or skin sensitization: Data valiable Station 23 Station 23 Station 23 Carringognity: Data not valiable Station 23 Station 23 Station 23 Station 23 VIRC dassified: Orang Nitz Not dassified as a known or anticipated carcinogen by NTP. Not dassified as a known or anticipated carcinogen by OSHA. CA Forg 95.4 AdvantWill (Not dassified as specific target organ toxicant, single exposure, category 3 with narcotic effects. STOT-specific Advantice Station 23 Station 23 Station 23 Station 24	Odor: Mild characte Odor threshold: Da pH: Data not availab Melting / Freezing p Boiling point: 74-80	ristic odor. ta not available. le. oint: -114°C (-173°F)*)°C (165.2-176°F)*	Flammability (Explosion limi Vapor pressur Vapor density Relative density	solid/gas): Data not its: Lower / Upper: 4 re (mm Hg): Ca 50 @ (Air = 1): Ca 1.5* (Specific gravity): 0.791	available. 4.0%(V) / 20.0%(V)* 20°C*	Auto-ignit Decompos Viscosity: Molecular	ion temperature: sition temperatur Data not availabl formula: Mixture	400°C (752°F)* e: Data not available. e.
Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Incompatible metaids: Strong outdotzen, incorginal caids and halogens. Hazardous decomposition products: Oxides of carbon. Section 1 Toxicological information Acute toxicity: Oral-rat LDGP: 7000 mg/kg: Inhelation-rat LGSP: 124.7 mg/k/hours [Ethano] Skin corrosion/mitation: Skir-server infant. Serious eye damage/infration: Skir-server infant. Serious eye damage/infration and valiable StoT-single exposure: The substance or mickun is classified as specific target organ toxicant, single exposure, category 3 with narcoic effects. STOT-single exposure: The substance or mickun is classified as specific target organ toxicant, single exposure, category 3 with narcoic effects. STOT-single exposure: The substance or mickun is classified as specific target organ toxicant, single exposure, category 3 with narcoic effects. STOT-single exposure: The substance or mickun is classified as specific target organ toxicant, single exposure, category 3 with narcoic effects. StoT-repeated exposure: See Folential health effects and available Potential health effects and available Potential health effects and available Potential health effects and available Potential health effects and available and available and availabl	Section 10	Stability and reactivity				1		
Acite toxicity: Oral-rat LDS0: 7060 mg/kg: Inhalation-rat LCS0: 124.7 mg/l4hours [Ethanol] Skin corresion/irritation: Skin-tabbi - Skipht Irritani. Reprintary or skin semictation: Data of available Bernole sky demoglimitation: Skin-tabbi - Skipht Irritani. Reprintary or skin semictation: Data of available Bernole Skipht I Skipht	Conditions to avoid Incompatible mater	: Excessive temperatures, heat ials: Strong oxidizers, inorganic	, sparks, open fla c acids and halog	ame and other sources				
Skin corrosion/irritation: Skin corrosion/irritation: Skin corrosion/irritation: Respiratory or skin sensitization: Data not available Carcinogenity: Data not available Carcinogenity: Data not available Diff: 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 classified: Group 3: Not classified 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 can expose you to chemicals including Methanol and Methyl isobutyl ketone, which are known to the State of California to cause caner and birth defects or other reproductive harm. Reproductive toxicity: Data on available STDT-single exposure: Data valiable STDT-single exposure: Data valiable Stription: Data valiable	Section 11	Toxicological information						
Toxicity to fish: Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol] Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacia), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure] Toxicity to algae: Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute] 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 apply to empty container. State and/or local disposal of accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information UN/NA number: UN1170 Shipping name: Ethanol Hazard class: 3 Packing group: II Reportable Quantity: 5,000 lbs (2270 kg) Marine pollutant: No Escotion 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 Ethanol Listed <t< td=""><td>Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: No component IARC classified: Gro OSHA: No compone CA Prop 65: WAR cancer and bith defe Reproductive toxic STOT-single exposs STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: Inhalation Ingestion: Ingestion Skin: Contact with s Eyes: Contact with s</td><td>e/irritation: Eyes-rabbit - Seve sensitization: Data not available a not available of this product present at levels up 3: Not classifiable as to its can nt of this product present at levels UNIG! : This product can expos acts or other reproductive harm. ity: Data not available ure: The substance or mixture i osure: Data not available Data not available acts: n may cause dizziness, drowsines, of kin causes irritation defatting on ayes may cause blindness. ns of exposure: See Potential</td><td>re irritant. ole greater than or e rcinogenicity to h Is greater than o e you to chemica s classified as sp ess, nausea, von decreased reaction prolonged conta health effects ab</td><td>numans. [Isopropanol] r equal to 0.1% is iden als including Methanol becific target organ tox niting, inability to conce on, euphoria, nausea, ict.</td><td>tified as a carcinoge and Methyl isobutyl I icant, single exposur entrate and irritation o</td><td>n or potential ketone, which e, category 3 of the throat.</td><td>carcinogen by OS are known to the with narcotic effect</td><td>State of California to cause</td></t<>	Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: No component IARC classified: Gro OSHA: No compone CA Prop 65: WAR cancer and bith defe Reproductive toxic STOT-single exposs STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: Inhalation Ingestion: Ingestion Skin: Contact with s Eyes: Contact with s	e/irritation: Eyes-rabbit - Seve sensitization: Data not available a not available of this product present at levels up 3: Not classifiable as to its can nt of this product present at levels UNIG! : This product can expos acts or other reproductive harm. ity: Data not available ure: The substance or mixture i osure: Data not available Data not available acts: n may cause dizziness, drowsines, of kin causes irritation defatting on ayes may cause blindness. ns of exposure: See Potential	re irritant. ole greater than or e rcinogenicity to h Is greater than o e you to chemica s classified as sp ess, nausea, von decreased reaction prolonged conta health effects ab	numans. [Isopropanol] r equal to 0.1% is iden als including Methanol becific target organ tox niting, inability to conce on, euphoria, nausea, ict.	tified as a carcinoge and Methyl isobutyl I icant, single exposur entrate and irritation o	n or potential ketone, which e, category 3 of the throat.	carcinogen by OS are known to the with narcotic effect	State of California to cause
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UN/NA number: UN1170 Shipping name: Ethanol Hazard class: 3 Reportable Quantity: 5,000 lbs (2270 kg) Marine pollutant: No Hazard class: 3 Packing group: II Reportable Quantity: 5,000 lbs (2270 kg) Marine pollutant: No Exceptions: Limited quantity equal to or less than 1 L 2020 ERG Guide # 127 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. MCRA code DSL NDSL CA Prop 65 Ethanol Listed Not listed D001 Listed Not listed -www.P65Warnings.ca.gov.								
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Section 16 Other information	Ethanol Methanol	2011	Listed Listed	Not listed 5,000 lbs.	D001 U154	Listed Listed	Not listed Not listed	▲ WARNING -Cancer and Reproductive Harm
	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