American Lighter, Inc.

# SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

# LIGHTER

# Section 1. PRODUCT AND COMPANY IDENTIFICATION

	lightor					
GHS Product Identifier: Model No.:	Lighter SE-9000					
Product Type:	Compressed Gas					
Recommended Use:	Create flame to light gas appliances, candles, fire logs, charcoal, camp and					
Neconimended 03e.	fireplace fires, chafing fuel, torches, lanterns and similar items.					
Supplier:	American Lighter, Inc.					
Address:	5690 Bandini Blvd., Bell, CA 9	0201, USA				
General Telephone No.:	323-266-1950					
Transportation Emergency	Chemtrec: 1-800-424-9300					
Telephone No:						
Section 2. HAZARDS IDENTI	FICATION					
OSHA/HCS Status:	This material is considered ha	zardous by OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Classification:	Flammable Gas, Hazard Clas	ss 2.1				
GHS Label Elements:						
Hazard Pictograms	$\wedge \wedge$					
0						
	$\checkmark$ $\checkmark$					
Signal Word:	Danger					
Hazard Statements:	Extremely flammable.					
	Contents under pressure.					
	Keep out of reach of children.					
Precautionary Statements:	Point nozzle away from face, h	nands and clothing.				
	Contains flammable gas under	r pressure.				
	Do not use near sparks or ope	en flame.				
	Never puncture or put in fire.					
		22°F (50°C) or to prolonged sunlight.				
	Be sure flame is completely ou					
	Do not use to light cigarettes, e	rnings provided by manufacturer of				
		lantern, candle, torch, charcoal,				
	lighter fluid or any other item w					
	Do not keep lit for more than 3					
		e the visible flame. Extra care should				
	be taken to prevent burns, inju					
	Metal nozzle tip can get very h after use.	not. Do not touch during or immediately				
Disposal:		ce with requirements of State and Federal hazmat and				
יישטיש.	waste disposal regualtions.					
Section 3. COMPOSITION/IN	FORMATION ON INGREDIEN	TS				
Component	CAS Number	%				
Butane (n-Butane)	106-97-8	90				
Propane (n-Propane, Propyl Hy		10				
(See Section 8 for Exposure	Limits.)					

Inhalation:	Causes displacement of oxygen in respiratory system. Move exposed person to fresh air. For respiratory distress give air, oxygen and administer cardio-pulmonary resuscitation as needed.
Skin Contact:	May cause irritation to skin. Flush off immediately with water. Frozen skin should be flooded with warm water (105-115°F). Clothing frozen to skin should be thawed before removal. Seek medical attention if irritation persists.
Eye Contact:	May cause burns or irritation to eye. Remove contact lenses and immediately flush with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Seek medical attention immediately.
Ingestion:	Ingestion is considered unlikely. If accidentally swallowed obtain immediate medical attention.
Section 5. FIRE FIGHTING M	IEASURES
Suitable Extinguishing Media:	Use carbon dioxide, dry powder or water spray to extinguish fire.
Fire Fighting Procedures:	Confine fire to immediate area. Disperse liquid or vapor if leaks occur.
Unusual Fire and Explosion Hazards:	Will form explosive mixtures in air. Vapors from liquified gas initially heavier than air and will spread along ground. Vapors may travel back to ignition source and flash back.
Protective Equipment:	For large fires in confined areas, use self-contained breathing apparatus. Do not inhale combustion or erupted gases.
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Appearance:	Liquified gas under pressure. Clear, odorless.
pH:	Not applicable.
Melting Point/Freezing Point:	
Initial Boiling Point and	31.1ºF (-0.5ºC) at 1,013.25 hPa
Range:	
Flash Point:	<-76ºF (<-60ºC), Method ASTM D92
Evaporation Rate:	High
Flammability (solid, gas):	Gas
Lower Flammability Limit:	1.8% (V)
Upper Flammability Limit:	8.5% (V)
Vapor Pressure:	2,399.8 hPa at 68°F (20°C)
Vapor Density:	$2.007 \text{ at } 70^{\circ}\text{F} (21.1^{\circ}\text{C}), \text{ (Air = 1.0)}$
Relative Density:	0.56 at 59⁰F (15⁰C)
Solubility in Water:	17 cc per 1000 cc of Water @ 170.6ºF (77ºC) Not Available
Partition Coefficient (Octanol/Water):	Not Available
Auto Ignition Temperature:	549°F (287°C)
Decomposition	Heating may cause a fire or explosion. Material does not
Temperature:	decompose at ambient temperatures. Carbon monoxide and non-combusted
	hydrocarbons (smoke) are possible hazardous decomposition products.
Section 10. STABILITY AND	REACTIVITY
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous	Can react with strong acids, strong oxidizers and copper.
Reactions:	Explosion hazard when exposed to carbonyl/oxygen mixture.
Conditions to Avoid:	Keen away from flame, sparks, excessive temperatures and onen flame
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Incompatible Materials: Reactivity and Hazardous Section 11. TOXICOLOGICAN Inhalation: Ingestion: Skin and Eye Contact:	Can react with strong acids, strong oxidizers and copper. Decomposition Products: Vapors may form an explosive mixture with air. Hazardous polymerization does not occur. <b>LINFORMATION</b> May cause central nervous system disorder (e.g. narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Simple asphyxiant: acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptons include shortness of breath, rapid heart rate, incoordination, lethargy, headaches nausea, vomiting and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Since exercise increases the tissue need for oxygen, symptoms will occur more quickly during exertion in an oxygen- deficient environment. Expossure to high concentrations may cause cardiac sensitization. Considered unlikely. Rapid release of liquified gases under pressure may cause frost burns of exposed tissues (skin, eye) due to evaporative cooling. Chronic Effects and/or Target Organ Data - May cause central nervous system disorder (e.g. narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Exposure to rapidly expanding gas or vaporizing liquid may cause frost bite (cold burn). Simple asphyxiant: acts by displacing oxygen in the lungs thereby diminishing the supply of oxygen available to the blood and tissues. Symptoms include shortness of breath, rapid heart rate, incoordination, lethargy, headaches, nausea, vomiting and disorientation. Continued lack of oxygen may result in convulsions, loss of consciousness and death. Since exercise increases the tissue need for oxygen, symptoms will occur

Components:	Butane Propane	CAS No. 106-97-8 CAS No. 74-98-6	<u>Skin Irritatior</u> Result - Skir		n - Irritating to skin.	
				: Classification eye irritation.	n - Irritating to eyes.	
	NTP		greater than		uct which is present at levels % is identified as a known or NTP.	
	IARC		greater than	or equal to 0.1	uct which is present at levels % is identified as a probable, an carcinogen by IARC.	
	OSHA		No component of this product which is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.			
Section 12. ECOLOGICAL II	NFORMATI	ON				
Bioaccumulation:	Accumula	tion in acquatic organi	sms is unlikely			
Toxicity to Fish:	Not expec	ted to be harmful to ac	cquatic organis	ms.		
Additional Ecological Information:	Liquid release is only expected to cause localized, non-persistent environmental damage, such as freezing. Biodegradation of this product may occur in soil and water. Volatilization is expected to be the most important removal process in soil and water. This product is expected to exist entirely in the vapor phase in ambient air.					
Section 13. DISPOSAL CON	ISIDERATIO	DNS				
Disposal:	-	-	-		vell ventilated area without ignition ocal and federal requirements.	
Section 14. TRANSPORT IN	FORMATIC	N				
CFR:		Proper Shipping Nan UN No Class - Packing Group -	ne -	Lighters 1057 2.1 None	FLAMMABLE 2	
DOT/TDG:		Proper Shipping Nan UN No Class - Packing Group -	ne -	Lighters 1057 2.1 None	FLAMMABLE 2	
IATA Cargo Transport:		UN No Description of the Go Class - ICAO - Labels -	oods -	1057 Lighters 2.1 2.1	FLAMMABLE GAS 2	
IATA Passenger Transport:		UN No Description of the Go Class - ICAO - Labels -	oods -	1057 Lighters 2.1 2.1	FLAMMABLE CAS 2	
IMDG:		UN No Description of the Go Class - IMDG - Labels - EmS Number - Marine Pollutant -	oods -	1057 Lighters 2.1 2.1 F-D S-U No	FLAMMABLE GAS 2	

# Sectoin 15. REGULATORY INFORMATION

Consumer Safety:	See ASTM F400-10, ASTM F2201-10, ISO 9994, ISO 22702, in addition to various national and regional laws, regulations and standards, such as the the Lighters Regulations of the Hazardous Products Act of Canada, CEN, EU, etc.							
Child Safety:	and regional laws,	See 16 CFR Parts 1210 and 1212, in addition to various national and regional laws, regulations and standards, such as the Lighters Regulations of the Hazardous Products Act of Canada, CEN, EU, etc.						
CERCLA Section 103 and SARA								
Section 304 (Release to the Environment):	"petroleum exclus oil, and products ( oil refining process the CERCLA Sect federal reporting r	The CERCLA definition of hazardous substances contains a "petroleum exclusion" which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act, may apply.						
TSCA Status:	Butane and Propa	ine are on the T	SCA inventory.					
DSL Status:	Butane and Propa	ine are on the C	anadian DSL list.					
SARA 311/312 Hazards:	Fire Hazard Acute Health Haza	ard						
PENN RTK (Pennsylvania Worker and Community Right-to-Know Law):	Components:	Butane Propane	CAS No. 106-97-8 CAS No. 74-98-6					
MASS RTK (Massachusetts Commonwealth Right-to- Know Law):	Components: Butane CAS No. 106-97-8 Propane CAS No. 74-98-6							
NJ RTK (New Jersey Worker and Community Right-to- Know Act):	Components: Butane CAS No. 106-97-8 Propane CAS No. 74-98-6							
California Proposition 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects.							

# Section 16. OTHER INFORMATION

National Fire Protection Association (NFPA) Ratings:

Health - 1 Flammability - 4 Reactivity - 0

This information is intended solely for the use of individuals trained in the NFPA system.

Further Information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material components designated and may not be valid for such components used in combination with any other materials or in any process, unless specified in the text.

Revision Date: 2/2/2016

# GENERAL STORAGE CODE GREEN

**CHEMTREC 24 Hour Emergency USA** 

Phone Number (800) 424-9300

1 703-741-5500 (from anywhere in the world).

For laboratory and industrial use only.

Not for drug, food or household use.

Page E1 of E2

### Section 1 Chemical Product and Company Identification

### HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

### Product CALCIUM CHLORIDE, DIHYDRATE

# Synonyms Calcium Chloride, Hydrated

# Section 2 Hazards Identification Signal word: WARNING

Pictograms: GHS07 Target organs: None known



**GHS Classification:** Eye irritation (Category 2A)

### GHS Label information: Hazard statement:

H319: Causes serious eye irritation.

### Precautionary statement:

P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. 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 / Information on	Composition / Information on Ingredients								
Chemical Name	CAS #	%	EINECS						
Calcium chloride, dihydrate	10035-04-8	100%	233-140-8 (anhydrous)						
Contains:	10010 50 1	== 0000							
Calcium chloride, anhydrous	10043-52-4	77-80%	233-140-8						
Water	7732-18-5	15-20%	231-791-2						
Potassium chloride	7447-40-7	2-3%	231-211-8						
Sodium chloride	7647-14-5	1-2%	231-598-3						

### Section 4 First Aid Measures

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

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

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

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

### Section 5 Fire Fighting Measures

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

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Heat is generated when product mixes with water.

## Section 6 Accidental Release Measures

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

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

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

### Section 7 Handling & 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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Linius.	Particulates not otherwise classified	None established	TWA: 15 mg/m <sup>3</sup> total dust	None established			

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

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

Section 9 Physical & Chemical Properties							
Appearance: Solid. White flakes. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 772°C (1422°F) Boiling point: Data not available Flash point: Not applicable	Evaporation rate (=1): Not applicable Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): Data not available Solubility(ies): Soluble in water.	Partition coefficient: Not applicable Auto-ignition temperature: Not applicable Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: CaCl <sub>2</sub> •2H <sub>2</sub> O Molecular weight: 147.02					
Section 10 Stability & Reactivity							

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Hygroscopic material. Avoid moisture.

Incompatible materials: Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc and sodium.

Hazardous decomposition products: None known.

Section 11 Toxicological Information

Skin corrosion/irrit Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Da NTP: No componen OSHA: No componen OSHA: No componen OSHA: No componen STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Dust ma Ingestion: Low toxic Skin: Contact with Signs and sympton Additional informa	Acute toxicity: Oral-rat LD50: 2100 mg/kg ; Dermal-rabbit LD50: >5000 mg/kg 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 a carcinogen or potential carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Dust may cause irritation to the upper respiratory tract (nose and throat). Ingestion: Low toxicity if swallowed. However, large amounts may result in gastrointestinal irritation or ulceration. Skin: Contact with skin may cause irritation and/or defatting on prolonged contact. Eyes: Contact with eyes may cause severe irritation and/or corneal injury. Signs and symptoms of exposure: See Potential health effects above. Additional information: RTECS #: EV9810000							
Section 12	Ecological Informa							
Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No	gradability: No data a	ertebrates: [ vailable	Daphnia magr Bioaccumu PBT and vF	na (water flea), LC50: Ilative potential: No PvB assessment: No	data available data available	r disposal.		
Section 13	Disposal Conside	rations						
		f in accorda	nce with all	local, state and fed				ontainer. State and/or local mical disposal agency.
UN/NA number: Hazard class: N Exceptions: No	ot applicable	Packing	group: No	lot Regulated ot applicable Not applicable	Reportable Qu	antity: No	Ma	arine pollutant: No
Section 15	Regulatory Inform	ation						
	ed to be listed if the CAS nu	imber for the a						
Compon	ent		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Calcium chloride			Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Information							
dent determinations of	suitability and completenes	s of informatio	n from all source	ces to assure proper use	of these materials and	the safety and h	ealth of employees	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,

### Section 1 Chemical Product and Company Identification

### HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

# Page E1 of E2

CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300 1 703-741-5500 (from anywhere in the world). For laboratory and industrial use only. Not for drug, food or household use.

Product	MAGNESIUM SULFATE, HEPTAHYDRATE	
Synonyms	Epsom Salts	
Section 2	Hazards Identification	
This substa to the Globa Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label i	nce or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of	Supplementary information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

### Hazards not otherwise classified:

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

 Section 3
 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %
 EINECS

 Magnesium sulfate
 10034-99-8
 100%
 231-298-2 (anhydrous)

 Section 4
 First Aid Measures
 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: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

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

### Section 5 Fire Fighting Measures

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

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

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

### Section 6 Accidental Release Measures

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

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

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

### Section 7 Handling & 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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits.	Magnesium sulfate	None established	None established	None established			

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

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

Section 9	Physical & Chemica	al Properties					
Odor: No odor. Odor threshold: Da pH: Data not availab	ole. ooint: Data not available not available	Flammability Explosion lin Vapor press Vapor densit Relative den	rate (=1): Data not a (solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): Data not y (Air = 1): Data not av sity (Specific gravity): ): Appreciable in water	available. Data not available available vailable 2.7	Auto-ignitio Decomposi Viscosity: Molecular f		: Data not available <b>re:</b> Data not available le.
Section 10	Stability & Reactivit	v					
Chemical stability:	-	Hazaro	dous polymerization: om moisture.	Will not occur.			
Incompatible mater	•						
•	osition products: Sulfu	ır oxides					
	p						
Section 11	Toxicological Inform	nation					
Acute toxicity: Dat Skin corrosion/irrit Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: No component IARC: No componen OSHA: No componen Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health effi Inhalation: May cau: Ingestion: Ingestion Skin: Contact with s Eyes: Contact with of Signs and symptom not available. Exerc	a not available ation: Data not available e/irritation: Data not available is ensitization: Data not sensitization: Data not icity: Data not available ta not available of this product present a nt of this product present ify: Data not available ure: Data not available Data not available ects: se respiratory irritation. may cause nausea, vom kin may cause irritation.	e ailable t available at levels greater than of at levels greater than t at levels greater than t at levels greater than le iting and diarrhea. best of our knowledge es to minimize potentia	or equal to 0.1% is iden or equal to 0.1% is iden the chemical, physical	ified as probable, po tified as a carcinoge	ossible or confiri en or potential c	med human carc arcinogen by OS	0
Section 12	Ecological Informat	ion					
Toxicity to daphnia Toxicity to algae: So Persistence and de Mobility in soil: No	mbusia affinis (fish, fresh and other aquatic inver- cenedesmus subspicatus gradability: No data ava data available sts: An environmental ha Disposal Considera	rtebrates: Daphnia ma s (Algae), EC50: 2,700 ailable Bioaccur PBT and izard cannot be exclud	agna (Crustacea), EC50 ) mg/L/ 72 hours nulative potential: No vPvB assessment: N	data available o data available			
	•			ply Eddard ra	lationa may	aby to create -	ontainer. State and/or local
regulations may be	e different. Dispose of	in accordance with a	all local, state and fee	eral regulations or	r contract with	a licensed che	emical disposal agency.
Section 14	Transport Informat			<u> </u>			
UN/NA number:	•	Shipping name:					
Hazard class: Not Exceptions: Not	ot applicable	Packing group: 2016 ERG Guide	Not applicable	Reportable Qu	antity: No	Ма	arine pollutant: No
Section 15	Regulatory Information	tion					
A chemical is considere	d to be listed if the CAS num	ber for the anhydrous for	m is on the Inventory list.				
Compone	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Magnesium sulfate		Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Information						
dent determinations of s	suitability and completeness ency for Research on Cancer	of information from all so	urces to assure proper use	of these materials and	d the safety and h	ealth of employees	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,

Form 06/2015

### **Chemical Product and Company Identification** Section 1 Page E1 of E2 **CHEMTREC 24 Hour Emergency USA** HOME SCIENCE TOOLS Phone Number (800) 424-9300 665 Carbon Street 1 703-741-5500 (from anywhere in the world). Billings, MT 59102 800-860-6272 For laboratory and industrial use only. www.homesciencetools.com Not for drug, food or household use. SODIUM ACETATE, ANHYDROUS Product Synonyms Acetic Acid, Sodium Salt Section 2 **Hazards Identification** This substance or mixture has not been classified as hazardous according Supplemental information: 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: None required Pictograms: No symbol required Target organs: None known GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required

### Hazards not otherwise classified:

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

Section 3	Composition / Information on	Ingredients			
Chemical Name		CAS #	%	EINECS	
Sodium acetate		127-09-3	100%	204-823-8	
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 EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

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

### Section 5 Fire Fighting Measures

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

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

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

### Section 6 Accidental Release Measures

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

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

Containment and Cleanup: 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 7 Handling & 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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Sodium acetate	Not established	Not established	Not established

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

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

approved respirator.						
Section 9 Physical & 0	Chemical Properties					
Appearance: Solid, White crystalling Odor: Slight acetic acid odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 324°C (61 Boiling point: Data not available Flash point: Data not available	5°F) Vapor d Relative	ation rate ( = 1): Data no ability (solid/gas): Data no ion limits: Lower / Upper pressure (mm Hg): Data no density (Air = 1): Data not e density (Specific gravity ity(ies): Soluble in water.	ot available. : Data not available iot available available	Auto-ignitior Decompositi Viscosity: D	n temperature: ion temperatur ata not availabl rmula: NaC <sub>2</sub> H	
Section 10 Stability & F	eactivity					
Chemical stability: Stable Conditions to avoid: Excessive ter	hperatures.	Hazardous polymerizatior	: Will not occur.			
Incompatible materials: None liste	J.					
Hazardous decomposition produc	s: Carbon and sodium o	oxides.				
Section 11 Toxicologica	al Information					
Skin corrosion/irritation: Skin-rabl Serious eye damage/irritation: Ey Respiratory or skin sensitization: Germ cell mutagenicity: Data not a Carcinogenity: Data not available NTP: No component of this product p IARC: No component of this product OSHA: No component of this product OSHA: No component of this product Reproductive toxicity: Data not availa <b>STOT-single exposure</b> : Data not av <b>STOT-single exposure</b> : Data not a <b>STOT-repeated exposure</b> : Data not <b>Aspiration hazard</b> : Data not availa <b>Potential health effects</b> : Inhalation: May be harmful if inhaled Ingestion: May be harmful if swallow Skin: Causes mild skin irritation. Eyes: Causes eye irritation. Signs and symptoms of exposure Additional information: <b>RTECS #</b> :	es-rabbit - 500 mg - irritat Data not available available present at levels greater th present at levels greater the t present at levels greater ailable vailable t available ble I. Inhalation may cause irrived. Ingestion may cause	ting than or equal to 0.1% is ide than or equal to 0.1% is ide r than or equal to 0.1% is id ritation to respiratory tract. abdominal pain and vomiti	entified as probable, pos lentified as a carcinoger ng.	ssible or confirm	ed human carc	0 ,
Section 12 Ecological I	nformation					
Toxicity to fish: Brachydanio rerio ( Toxicity to daphnia and other aqua Toxicity to algae: No data available Persistence and degradability: No Mobility in soil: No data available Other adverse effects: An environm	fish, fresh water), LC0: ≥ t <b>ic invertebrates:</b> Daphr data available Bio PBT	nia magna (Crustacea), EC paccumulative potential: 1 T and vPvB assessment:	No data available No data available			
These disposal guidelines are int	ended for the disposal	of catalog-size quantitie	s only. Federal regula	ations may app	bly to empty co	ontainer. State and/or local
regulations may be different. Dis	pose of in accordance <b> formation (US DOT</b> / 0		ederal regulations or	contract with a	licensed che	mical disposal agency.
		,				
UN/NA number: Not applicable Hazard class: Not applicable Exceptions: Not applicable	Packing gro	Ime:Not RegulatedOup:Not applicableOutputNot applicable	Reportable Qua	antity: No	Ма	rine pollutant: No
Section 15 Regulatory						
A chemical is considered to be listed if the		rous form is on the Inventory lis	t.			
Component	TS	SCA CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium acetate		sted Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16 Other Inform	nation					
The information contained herein is furnis dent determinations of suitability and com IARC: International Agency for Research	pleteness of information from	m all sources to assure proper u	use of these materials and	the safety and hea	alth of employees	. NTP: National Toxicology Program,

# **OXIDIZER STORAGE CODE YELLOW**

Section 1 **Chemical Product and Company Identification** 

### HOME SCIENCE TOOLS

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

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

Page E1 of E2

1 703-741-5500 (from anywhere in the world). For laboratory and industrial use only. Not for drug, food or household use.

Product AMMONIUM NITRATE	
Synonyms Nitric Acid Ammonium Salt	
Section 2 Hazards Identification	
<ul> <li>Signal word: WARNING</li> <li>Pictograms: GHS03 / GHS07</li> <li>Target organs: Liver, Kidneys, Blood</li> <li>Image: Signal Active A</li></ul>	<ul> <li>Precautionary statement(s):</li> <li>P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.</li> <li>P220: Keep away from clothing/incompatible/combustible materials.</li> <li>P221: Take any precaution to avoid mixing with combustibles/acids/oxidizers.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P312: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of water and soap.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332+P313: If skin irritation occurs: Get medical attention.</li> <li>P337+P313: If eye irritation persists: Get medical attention.</li> <li>P362+P364: Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378: In case of fire: Use water to extinguish.</li> <li>P501: Dispose of content/s/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.</li> </ul>

### 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	
Ammonium nitrate		6484-52-2	100%	229-347-8	
Section 4	First Aid Measures	1	1		

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

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: 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 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 water. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon<sup>®</sup> may provide limited control. 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. Strong oxidizer. If heated under confinement, material may explode. Ammonium nitrate of any grade, including fertilizer, when contaminated with oil, charcoal or other organic materials should be considered an explosive capable of dentonation by combustion or by explosion of adjacent explosive materials. Combustion by-products include oxides of nitrogen and ammonia. Closed containers may rupture violently when heated.

#### 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.

#### Section 7 Handling & 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 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 Prote	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Particulates not otherwise classified/regulated	None established.	TWA: 5 mg/m <sup>3</sup> Respirable fraction	None established.

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

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

Section 9 Physical & Chemical Pro	perties	
Appearance: Hygroscopic solid. White granules Odor: No odor. Odor threshold: Data not available. pH: 5.4 Melting / Freezing point: 169°C (338°F) Boiling point: Decomposes Flash point: Data not available	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Data not available Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.73 @ 23°C Solubility(ies): 118 g/100 g water @ 30°C	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: 210°C (410°F) Viscosity: Data not available. Molecular formula: NH <sub>4</sub> NO <sub>3</sub> Molecular weight: 80.05
Section 10 Stability & Reactivity		
Chemical stability: Stable Conditions to avoid: Excessive temperatures and	Hazardous polymerization: Will not occur. other sources of ignition. Combustible and organic materials	
Incompatible materials: Peroxides, strong oxidize	rs, reducing agents, organic materials.	
Hazardous decomposition products: Nitrogen ox	ides.	
Section 11 Toxicological Information		

### Toxicological Information

Acute toxicity: Oral-rat LD50: 2217 mg/kg ; Inhalation-rat LC50: >88.8 mg/L/4 hours [Ammonium nitrate]

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.

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: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Ingestion: May cause gastroenteritis and abdominal pains. Purging and diuresis can be expected. Rare cases of nitrates being converted to the more toxic nitrites have been reported, mostly with infants.

Skin: Causes irritation to skin. Symptoms include redness, itching, and pain.

Eyes: Causes irritation, redness, and pain.

Signs and symptoms of exposure: Small repeated oral doses of nitrates may cause weakness, depression, headache, and mental impairment. Persons with stomach diseases and infants are much more sensitive to nitrate ion toxicity.

Additional information: RTECS #: BR9050000 [Ammonium nitrate]

#### Section 12 **Ecological Information**

Toxicity to fish: Cyprinus carpio (Fish, fresh water) LC50: 74 mg/L/48 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea) EC50: 555 mg/L

Toxicity to algae: Scenedesmus quadricauda (Algae) EC50: 83 mg/L

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. Transport Information (US DOT / CANADA TDG) Section 14

UN/NA number: Hazard class: 5.1 Exceptions: Limi		Shipping nam Packing group al to or less tha	o: III	iium nitrate		table Quantity: ERG Guide # 14		Ма	rine pollutant: No
Section 15	Regulatory Info	ormation							
A chemical is considered	I to be listed if the CA	S number for the an	hydrous form i	s on the Invente	ory list.				
Compone	nt		TSCA	CERLCA	(RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ammonium nitrate			Listed	Not list	ed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Informat	ion							
			, ,					0	ered by them and must make indepen

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

Section 1	Identification	Page E1 of E2
SCIENCE TOOLS	665 Carbon Street Billings, MT 59102 406-256-0990 www.homesciencetools.com	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	FD&C BLUE #1	
Synonyms	Vegetable Dye / Food Coloring - Blue 0.5%	
Section 2	Hazards identification	
to the Glob Chemicals. Signal wor Pictograms Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of d: None required s: No symbol required ms: None known ification: None required information: Hazard statement: None required ary statement: None required	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.

### Hazards not otherwise classified:

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

Section 3 C	omposition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water FD&C Blue #1 (C.I. No. 4	12090)	7732-18-5 3844-45-9	99.5% 0.5%	231-791-2 223-339-8	
Section 4 Fi	irst aid measures				

**INGESTION:** MAY BE HARMFUL BY 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.

### 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.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	FD&C Blue #3	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 chemic	al properties					
Odor: No odor. Odor threshold: pH: Data not av Melting / Freezing p	point: Approximately 0°C (32°F) (wa pproximately 100°C (212°F) (wa	Flammability (s Explosion limit Vapor pressure Vapor density ( ter) Relative density (	te (Water = 1): <1 olid/gas): Data not a s: Lower / Upper: D (mm Hg): 14 (water Air = 1): 0.7 (water) Specific gravity): Appr Complete in water.	oata not available )	Auto-igniti Decompos Viscosity: Molecular	•	: Data not available I <b>re:</b> Data not available. ble. e
Section 10	Stability and reactivi	ity					
Chemical stabil Conditions to a	ity: Stable void: Excessive temperature		us polymerization: ion.	Will not occur.			
ncompatible m	aterials: Strong oxidizers, re	ducing agents.					
Hazardous deco	omposition products: Oxide	s of carbon, nitrogen ox	ides, sulfur oxides.				
Section 11	Toxicological inform	ation					
Respiratory or s Germ cell muta Carcinogenity: NTP: No compor OSHA: No compo OSHA: No comp Ca Prop 65: This Reproductive to STOT-single ex STOT-repeated Aspiration haza Potential health Inhalation: Not e Ingestion: May b	expected to be a health hazard be harmful by ingestion.	available levels greater than or e t levels greater than or at levels greater than or o chemicals known to th	equal to 0.1% is ident equal to 0.1% is ider	ified as probable, pos ntified as a carcinoger	sible or confir or potential c	med human card arcinogen by OS	
Eyes: Contact n Signs and symp not available. E: Additional infor	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not	s to minimize potential l available		and toxicological prop	erties have no	ot been thorough	ly investigated. Specific data
Signs and symp not available. Ex Additional infor Section 12	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological information	s to minimize potential l available		and toxicological prop	erties have no	ot been thorough	ly investigated. Specific data
Eyes: Contact n Signs and symp not available. Ex Additional infor Section 12 Toxicity to fish: Toxicity to daph Toxicity to algae Persistence and Mobility in soil: Other adverse e	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not	s to minimize potential l available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded	nazards. able Ilative potential: No PvB assessment: No	data available o data available	-	ot been thorough	ly investigated. Specific data
Eyes: Contact n Signs and symp not available. E: Additional infor Section 12 Toxicity to fish: Toxicity to daph Persistence and Mobility in soil: Other adverse e Section 13 These disposal	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological information No data available to degradability: No data available sto data available offects: An environmental haz Disposal considerat guidelines are intended fo	s to minimize potential l available on tebrates: No data availa ilable Bioaccumu PBT and vi rard cannot be excluded ions r the disposal of catal	nazards. able able <b>PvB assessment:</b> No I in the event of unpro log-size quantities of	data available o data available ofessional handling or only. Federal regula	disposal. ations may aj	oply to empty c	ontainer. State and/or loc
Eyes: Contact n Signs and symp not available. E: Additional infor Section 12 Toxicity to fish: Toxicity to algad Persistence and Mobility in soil: Other adverse e Section 13 These disposal regulations mat	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological information No data available to degradability: No data available of degradability: No data available offects: An environmental haz Disposal considerat guidelines are intended for y be different. Dispose of i	s to minimize potential l available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded ions r the disposal of catal n accordance with all	nazards. able able <b>PvB assessment:</b> No I in the event of unpro log-size quantities of	data available o data available ofessional handling or only. Federal regula	disposal. ations may aj	oply to empty c	ontainer. State and/or loc
Eyes: Contact n Signs and symp not available. Ex Additional infor Section 12 Toxicity to fish: Toxicity to daph Toxicity to adaph Toxicity to adaph Persistence and Mobility in soil: Other adverse e Section 13 These disposal regulations mai Section 14	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological information No data available to data available d degradability: No data available d degradability: No data available offects: An environmental haz Disposal considerat l guidelines are intended for y be different. Dispose of i Transport information	s to minimize potential l available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded ions r the disposal of catal n accordance with all on	able Ilative potential: No PVB assessment: No I in the event of unpro log-size quantities of local, state and fed	data available o data available ofessional handling or only. Federal regula	disposal. ations may aj	oply to empty c	ontainer. State and/or loc
Eyes: Contact n Signs and symp not available. E: Additional infor Section 12 Toxicity to fish: Toxicity to daph Persistence and Mobility in soil: Other adverse e Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class:	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological informatic No data available onia and other aquatic inverte e: No data available d degradability: No data ava No data available offects: An environmental haz Disposal considerat I guidelines are intended fo y be different. Dispose of i Transport informatic er: Not applicable : Not applicable	s to minimize potential l available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded ions r the disposal of catal n accordance with all	able <b>Idative potential:</b> No <b>PVB assessment:</b> No <b>Identify assessment:</b>	data available o data available ofessional handling or only. Federal regula	disposal. ations may a <sub>f</sub> contract with	oply to empty c a licensed che	ontainer. State and/or loc
Eyes: Contact n Signs and symp not available. Ex Additional infor Section 12 Toxicity to fish: Toxicity to daph Toxicity to algar Persistence and Mobility in soil: Other adverse e Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: Section 15	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological informatic No data available onia and other aquatic inverte e: No data available d degradability: No data available offects: An environmental haz Disposal considerat I guidelines are intended for y be different. Dispose of i Transport informatic er: Not applicable Not applicable Not applicable Regulatory informatic	s to minimize potential i available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded ions r the disposal of catal n accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # ion	hazards. able <b>PyB assessment:</b> No <b>PyB assessment:</b> No lin the event of unpro- log-size quantities of local, state and fed lot Regulated ot applicable Not applicable	data available o data available ofessional handling or only. Federal regula eral regulations or o	disposal. ations may a <sub>f</sub> contract with	oply to empty c a licensed che	ontainer. State and/or loc mical disposal agency.
Eyes: Contact n Signs and symp not available. Ex Additional infor Section 12 Toxicity to fish: Toxicity to daph Toxicity to algad Persistence and Mobility in soil: Other adverse e Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: Section 15 A chemical is consi	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological informatic No data available onia and other aquatic inverte e: No data available d degradability: No data available offects: An environmental haz Disposal considerat I guidelines are intended for y be different. Dispose of i Transport informatic er: Not applicable Not applicable Not applicable Regulatory informatic dered to be listed if the CAS number Participation of the cas number Part	s to minimize potential i available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded ions r the disposal of catal n accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # ion per for the anhydrous form	able <b>Itative potential:</b> No <b>PyB assessment:</b> No <b>Itative quantities of</b> local, state and fed lot Regulated ot applicable Not applicable is on the Inventory list.	data available o data available ofessional handling or only. Federal regula eral regulations or <b>Reportable Qua</b>	disposal. ations may ar contract with a <b>ntity:</b> No	oply to empty c a licensed che Ma	ontainer. State and/or loc mical disposal agency. arine pollutant: No
Eyes: Contact n Signs and symp not available. Ex Additional infor Section 12 Toxicity to fish: Toxicity to daph Toxicity to algad Persistence and Mobility in soil: Other adverse e Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: Section 15 A chemical is consi	nay cause irritation. ptoms of exposure: To the b xercise appropriate procedure rmation: RTECS #: Data not Ecological informatic No data available of degradability: No data available d degradability: No data available offects: An environmental haz Disposal considerat I guidelines are intended fo y be different. Dispose of i Transport informatic er: Not applicable : Not applicable Not applicable Regulatory informat dered to be listed if the CAS number conent	s to minimize potential i available on tebrates: No data availa ilable Bioaccumu PBT and vi card cannot be excluded ions r the disposal of catal n accordance with all on Shipping name: N Packing group: N 2020 ERG Guide # ion	hazards. able <b>PyB assessment:</b> No <b>PyB assessment:</b> No lin the event of unpro- log-size quantities of local, state and fed lot Regulated ot applicable Not applicable	data available o data available ofessional handling or only. Federal regula eral regulations or o	disposal. ations may a <sub>f</sub> contract with	oply to empty c a licensed che	ontainer. State and/or loc mical disposal agency.

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# GENERAL STORAGE CODE GREEN

Section 1	Identification	Page E1 of E2
HOME SCTENCE TOOLS	665 Carbon Street Billings, MT 59102 406-256-0990 www.homesciencetools.com	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	GREEN DYE SOLUTION	
Synonyms	Food Coloring - Green 1.25%	
Section 2	Hazards identification	
to the Glob Chemicals Signal wor Pictograms Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according hally Harmonized System (GHS) of Classification and Labeling of d: None required s: No symbol required ans: None known ification: None required information: Hazard statement: None required ary statement: None required	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.

# Hazards not otherwise classified:

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

Section 3 Compositio	n / information on ingredients			
Chemical Name	CAS #	%	EINECS	
Water FD&C Blue #1 (C.I. No. 42090) FD&C Yellow #5 (C.I. No. 19140)	7732-18-5 3844-45-9 1934-21-0	98.750% 0.625% 0.625%	231-791-2 223-339-8 217-699-5	
Section 4 First aid me	asures			

Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL BY 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.

#### Section 7 Handling and storage

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, dry, 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.	FD&C Blue #1	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 4	Physical and chemic	al properties					
Section 9 Appearance: Liq			<b>te (</b> Water <b>= 1)</b> : <1		Partition c	oefficient: Data	a not available
Odor: No odor.			olid/gas): Data not a	vailable.			e: Data not available
	Data not available.	• •	s: Lower / Upper: D			•	ure: Data not available.
H: Data not avai			(mm Hg): 14 (water)		· · ·	Data not availa	
Aelting / Freezing po	int: Approximately 0°C (32°F) (wa		Air = 1): 0.7 (water)		Molecular	formula: Mixtu	re
3oiling point: Ap	proximately 100°C (212°F) (wa	ter) Relative density (	Specific gravity): Appro	oximately 1.0 (water)	Molecular	weight: Mixture	e
Flash point: Data	a not available	Solubility(ies):	Complete in water.				
Section 10	Stability and reactivi	ty					
Chemical stabilit Conditions to av	y: Stable oid: Excessive temperature		ous polymerization:	Will not occur.			
	terials: Strong oxidizers, re						
-	mposition products: Oxide		xides sulfur oxides				
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Section 11	Toxicological inform	ation					
Acute toxicity: (	)ral-rat LD50: >2,000 mg/kg						
Skin corrosion/ir	ritation: Data not available						
	age/irritation: Data not ava						
	kin sensitization: Data not	available					
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target of the second se ERG: Emergency Response Guidebook. Revision Date: November 24, 2020 Supercedes: July 3, 2018

# **GENERAL STORAGE CODE GREEN**

Section 1	Identification	Page E1 of E2
	5 Carbon Street lings, MT 59102 6-256-0990 w.homesciencetools.com	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product F	D&C RED #3	
Synonyms F	ood Coloring - Red 0.5% Aqueous Solution / Food Dye Red #3 / Food	Coloring Red #3 / Dye, Vegetable
Section 2	Hazards identification	
to the Globally Chemicals. Signal word: 1 Pictograms: N Target organs: GHS Classifica GHS Label info	No symbol required	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.

### Hazards not otherwise classified:

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

Section 3	Composition / information or	n ingredients			
Chemical Name		CAS #	%	EINECS	
Water FD&C Red #3 (C.I. N	No. 45430)	7732-18-5 16423-68-0	99.5% 0.5%	231-791-2 240-474-8	
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.

#### 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.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	FD&C Red #3	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: Liquid, clear, light red. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 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 1.0 (water) 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.

#### Incompatible materials: Strong oxidizers, reducing agents. Hazardous decomposition products: Oxides of carbon, nitrogen oxides, sulfur oxides. Section 11 **Toxicological information** Acute toxicity: Oral-rat LD50: >2,000 mg/kg 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: Not expected to be a health hazard. Ingestion: May be harmful by ingestion. Skin: Contact may cause irritation. Eyes: Contact 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 #: 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 2020 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. DSL NDSL Component TSCA CERLCA (RQ) RCRA code CA Prop 65 This product does not contain FD&C Red #3 (C.I. No. 45430) 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 Form 06/2015

# SDS No.: FF0460

# SAFETY DATA SHEET

# **GENERAL STORAGE CODE GREEN**

Section 1	Identification	Page E1 of E2
HOME SCTENCE TOOLS	665 Carbon Street Billings, MT 59102 406-256-0990 www.homesciencetools.com	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	FOOD DYE YELLOW #5, 0.5% AQUEOUS SOLUTION	
Synonyms	Food Coloring Yellow #5 / Dye, FD&C Yellow #5, 0.5% Aqueous Solution	n / Yellow #5 Dye / Dye, Vegetable / FD&C Yellow #5
Section 2	Hazards identification	
to the Glob Chemicals. Signal wor Pictograms Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according hally Harmonized System (GHS) of Classification and Labeling of d: None required s: No symbol required ans: None known ification: None required information: Hazard statement: None required ary statement: None required	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.

### Hazards not otherwise classified:

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

Section 3 Composition	n / information on ingredients			
Chemical Name	CAS #	%	EINECS	
Water FD&C Yellow #5 (C.I. No. 19140)	7732-18-5 1934-21-0	99.5% 0.5%	231-791-2 217-699-5	
Section 4 First aid mea	asures			

**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.

### 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.

Section 8	Exposure controls / personal prot	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	FD&C Yellow #5	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.

approved respirator								
Section 9	Physical and chem	nical propertie	es					
Odor: No odor. Odor threshold: Definition of the short of	able. i <b>nt:</b> Approximately 0°C (32°F) ( roximately 100°C (212°F) (v	(water) Relation	imability (so osion limits or pressure or density ( ive density (So	e (Water = 1): <1 olid/gas): Data not a s: Lower / Upper: I (mm Hg): 14 (wate Air = 1): 0.7 (water) Specific gravity): Appr Complete in water.	Data not available	Auto-ignit Decompos Viscosity: Molecular	-	e: Data not available ure: Data not available. ıble. ıre
Section 10	Stability and reacti	ivity						
Chemical stability Conditions to avoi	<ul> <li>Stable</li> <li>id: Excessive temperature</li> </ul>	ires which caus		us polymerization: on.	Will not occur.			
Incompatible mate	erials: Strong oxidizers, r	reducing agents	s.					
Hazardous decom	position products: Oxid	ides of carbon, ı	nitrogen oxi	ides, sulfur oxides.				
Section 11 Acute toxicity: Da	Toxicological infor	rmation						
Carcinogenity: Da NTP: No componer IARC: No compone OSHA: No compone Ca Prop 65: This pr Reproductive toxic	nt of this product present a ent of this product present ent of this product presen roduct does not contain a	at levels greate t at levels greate nt at levels grea	ter than or e ater than or	equal to 0.1% is ident equal to 0.1% is ider	ified as probable, pos tified as a carcinoge	sible or confin	med human card arcinogen by OS	0 1
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