## SAFETY DATA SHEET

# GENERAL STORAGE CODE GREEN

Section 1

Identification

## HOME SCIENCE TOOLS

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

### Product ACETIC ACID, 1 MOLAR SOLUTION

# Synonyms Acetic Acid, Water Solution

## Section 2 Hazards identification

Signal word: WARNING Pictograms: No symbol required Target organs: None known

GHS Classification:

Eye irritation (Category 2B)

**GHS Label information**: **Hazard statement**: H320: Causes eye irritation.

#### Precautionary statement:

P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.

#### Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients

Occupii 5	composition / mornation on ingredients								
Chemical Name		CAS #	%	EINECS					
Water Acetic acid		7732-18-5 64-19-7	94.1% 5.9%	231-791-2 200-580-7					
Section 4	First aid measures								

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

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

#### Section 5 Fire fighting measures

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

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

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This chemical reacts violently with strong oxidizers, generating a fire and explosion hazard. Reacts violently with strong bases, strong acids and many other compounds.

#### 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.

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

Not for drug, food or household use.

#### Section 7 Handling and storage

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

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

Section 8	on 8 Exposure controls / personal protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)				
	Acetic acid	TWA: 25 ma/m <sup>3</sup> STEL: 37 ma/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	TWA: 25 ma/m <sup>3</sup> STEL: 37 ma/m <sup>3</sup>				

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

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

approved respirator.										
Section 9	Physical and chemical pro	perties								
Appearance: Clear, colorless liquid. E   Odor: Vinegar-like odor. F   Odor threshold: Data not available. F   pH: Data not available. V   Melting / Freezing point: Approximately 0°C (32°F) (water) V   Boiling point: Approximately 100°C (212°F) (water) R		Evaporation rate ( Water = 1): <1			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, heat, sparks, open flame and other sources of ignition.									
•	Incompatible materials: Bases, strong oxidizers, chromic acid, nitric acid, sodium peroxide, carbonates, hydroxides, phosphates. Corrosive to some metals. Potentially violent reaction with acetaldehyde and acetic anhydride. Ignites on contact with potassium-tert-botoxide.									
Hazardous decompo	osition products: Carbon mor	oxide, hydrogen	sulfide and other harm	nful gases or vapors i	ncluding oxid	es and/or other co	mpounds of sulfur and sodium.			
Section 11	Toxicological information									
Acute toxicity: Oral-rat LD50: 3,310 mg/kg ; Inhalation-rat LC50: 11.4 mg/L/4 hours ; Dermal-rabbit LD50: 1,060 mg/kg [Acetic acid, glacial]   Skin corrosion/irritation: Skin-rabbit - Severe irritant. [Acetic acid, glacial]   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 OSHA.   Reproductive toxicity: Data not available   STOT-single exposure: Data not available   STOT-single exposure: Data not available   Aspiration hazard: Data not available   STOT-single exposure: Data not available   STOT-single exposure: Data not available   Aspiration hazard: Data not available   StoT-single exposure: Data not available   Aspiration hazard: Data not available   StoT-single exposure: Data not available   Storester Mata not available   Storester Sta not available   Storester										
Section 12 Ecological information										
Toxicity to fish: Gambusia affinis (fish, fresh water), LC50 = 251 mg/L/24 hours [Acetic acid, glacial]   Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = 95 mg/L/24 hours [Acetic acid, glacial]   Toxicity to algae: Euglena gracilis (Algae), EC100 = 720 mg/L [Acetic acid, glacial]   Persistence and degradability: Easily biodegradable Bioaccumulative potential: Not expected to bioaccumulate   Mobility in soil: No data available PBT and vPvB assessment: No data available   Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.   Section 13 Disposal considerations   These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.										
Section 14 Transport information										
UN/NA number: Not applicable Shipping name: Not Regulated   Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: Marine pollutant: No   Exceptions: Not applicable 2016 ERG Guide # Not applicable Reportable Quantity: Marine pollutant: No   Section 15 Regulatory information Regulatory Reportable Reportable Reportable Reportable Quantity: No Marine pollutant: No										
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.										
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65			
Acetic acid, glacial		Listed	5,000 lbs (2270 kg)	D001, D002	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									

#### 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