



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment						
	<table border="1" style="margin: auto;"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center; border: 1px solid black;">2</td> </tr> <tr> <td style="background-color: #FFCCCC;">Fire Hazard</td> <td style="text-align: center; border: 1px solid black;">0</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; border: 1px solid black;">0</td> </tr> </table>	Health Hazard	2	Fire Hazard	0	Reactivity	0	 See Section 15.
Health Hazard	2							
Fire Hazard	0							
Reactivity	0							

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/Trade Name	Sodium Acetate, 3 M Sterile Solution, pH 5.2	Catalog Number(s). S3065 CAS# Mixture. RTECS Not applicable. TSCA TSCA 8(b) inventory: Water, Acetic acid, glacial CI# Not applicable.
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<u>IN CASE OF EMERGENCY</u> <u>CHEMTREC (24hr) 800-424-9300</u> CALL (310) 516-8000
Commercial Name(s)	Not available.	
Synonym	Not available.	
Chemical Name	Not applicable.	
Chemical Family	Alkaline metal salt. (Contains Li, Na, K, Rb, Cs or Fr) (Salt.)	
Chemical Formula	Not applicable.	
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	
1) Water	7732-18-5				55-65
2) Sodium acetate trihydrate	6131-90-4				30-40
3) Acetic acid, glacial	64-19-7	10	15		4-6
Toxicological Data on Ingredients					
Acetic acid, glacial: ORAL (LD50): Acute: 3310 mg/kg [Rat]. 4960 mg/kg [Mouse]. 3530 mg/kg [Rat]. DERMAL (LD50): Acute: 1060 mg/kg [Rabbit]. VAPOR (LC50): Acute: 5620 ppm 1 hours [Mouse].					

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of ingestion, of inhalation (lung irritant).
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Acetic acid, glacial]. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, upper respiratory tract, skin, teeth. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Non-explosive in presence of open flames and sparks, of shocks.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Acetic acid vapors may form explosive mixtures with air. Reactions between acetic acid and the following materials are potentially explosive: 5-azidotetrazole, bromine pentafluoride, chromium trioxide, hydrogen peroxide, potassium permanganate, sodium peroxide, and phosphorus trichloride. Dilute acetic acid and dilute hydrogen can undergo an exothermic reaction if heated, forming peracetic acid which is explosive at 110 degrees C. Reaction between chlorine trifluoride and acetic acid is very violent, sometimes explosive. (Acetic acid, glacial)

Section 6. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions	Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
Personal Protection	Splash goggles. Lab coat. Gloves. Respiratory protection is not necessary for normal handling. Adequate general (room) ventilation or local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Acetic acid, glacial TWA: 10 STEL: 15 (ppm) [Australia] TWA: 25 STEL: 27 (mg/m ³) [Australia] TWA: 10 STEL: 15 (ppm) from NIOSH TWA: 25 STEL: 37 (mg/m ³) from NIOSH TWA: 10 STEL: 15 (ppm) [Canada] TWA: 26 STEL: 39 (mg/m ³) [Canada] TWA: 25 STEL: 37 (mg/m ³) TWA: 10 STEL: 15 (ppm) from ACGIH (TLV) [United States] [1999] TWA: 10 (ppm) from OSHA (PEL) [United States] TWA: 25 (mg/m ³) from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Acetic acid.
Molecular Weight	Not applicable.	Taste	Not available.
pH (1% soln/water)	Not available	Color	Clear Colorless
Boiling Point	The lowest known value is 100°C (212°F) (Water). Weighted average: 101.39°C (214.5°F)		
Melting Point	May start to solidify at 16.6°C (61.9°F) based on data for: Acetic acid, glacial.		
Critical Temperature	The lowest known value is 321.67°C (611°F) (Acetic acid, glacial).		
Specific Gravity	Weighted average: 1.12 (Water = 1)		
Vapor Pressure	The highest known value is 2.3 kPa (@ 20°C) (Water). Weighted average: 2.24 kPa (@ 20°C)		
Vapor Density	The highest known value is 2.07 (Air = 1) (Acetic acid, glacial). Weighted average: 0.73 (Air = 1)		
Volatility	Not available.		
Odor Threshold	The highest known value is 0.48 ppm (Acetic acid, glacial)		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, diethyl ether, acetone.		
Solubility	Easily soluble in cold water, hot water. Soluble in diethyl ether, acetone.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible materials
Incompatibility with various substances	Reactive with oxidizing agents Slightly reactive to reactive with reducing agents, metals, acids, alkalis
Corrosivity	Not available
Special Remarks on Reactivity	Not available
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 3310 mg/kg [Rat]. (Acetic acid, glacial). Acute dermal toxicity (LD50): 1060 mg/kg [Rabbit]. (Acetic acid, glacial).
Chronic Effects on Humans	MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Acetic acid, glacial]. May cause damage to the following organs: kidneys, upper respiratory tract, skin, teeth.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), eye contact (irritant) Slightly hazardous in case of ingestion, of inhalation (lung irritant).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects Skin: causes skin irritation with redness and pain. Eyes: causes eye irritation with redness, pain and tearing. Inhalation: Causes respiratory tract and mucous membrane irritation with sneezing, wheezing, coughing, rhinitis, dyspnea, thoracic pain. This product contains Acetic acid. Inhalation of high concentrations of Acetic acid may affect behavior/central nervous system and cause central nervous system depression with headache, nausea, vomiting. Ingestion: Ingestion of large amounts may cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea, abdominal pain. This product contains Acetic acid. Ingestion of large amounts of Acetic acid may affect urinary system - kidneys (albuminuria, hematuria, hemoglobinuria, anuria, uremia, nephrosis, acute renal failure, acute tubular necrosis), liver (impaired liver function), behavior (convulsions, giddiness, muscular weakness). This product also contains Sodium Acetate, trihydrate. Ingestion of large amounts of Sodium Acetate may affect behavior/central nervous system, and urinary system. Chronic Potential Health Effects Ingestion and Inhalation: This product contains Acetic acid. Prolonged or repeated ingestion of large doses of Acetic acid may affect behavior, liver, kidneys, and metabolism (weight loss). Prolonged or repeated inhalation of Acetic acid may cause pharyngitis, chronic bronchitis, and may affect blood (changes in leukocyte count), and urinary system (kidney damage). Prolonged or repeated ingestion or inhalation of Acetic acid may also cause erosion of teeth. Skin: Prolonged or repeated skin contact with Acetic acid may cause irritation or dermatitis, hyperkeratosis, cracking of the skin. Eyes: Prolonged or repeated eye contact with Acetic acid may cause conjunctivitis.


Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	Connecticut hazardous material survey.: Acetic acid, glacial Illinois toxic substances disclosure to employee act: Acetic acid, glacial Illinois chemical safety act: Acetic acid, glacial New York release reporting list: Acetic acid, glacial Rhode Island RTK hazardous substances: Acetic acid, glacial Pennsylvania RTK: Acetic acid, glacial Minnesota: Acetic acid, glacial Massachusetts RTK: Acetic acid, glacial Massachusetts spill list: Acetic acid, glacial New Jersey: Acetic acid, glacial New Jersey spill list: Acetic acid, glacial Louisiana spill reporting: Acetic acid, glacial California Director's List of Hazardous Substances: Acetic acid, glacial TSCA 8(b) inventory: Water; Acetic acid, glacial CERCLA: Hazardous substances: Acetic acid, glacial: 5000 lbs. (2268 kg);
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
Other Classifications	WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC). DSCL (EEC)

R36/37/38- Irritating to eyes, respiratory system and skin.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39- Wear suitable gloves and eye/face protection.

HMS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	h

National Fire Protection Association (U.S.A.)

Health



Flammability

Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Other Information**MSDS Code** S0099**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 4/15/2008.

Verified by Sonia Owen.

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CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.