

Trade Name: Edition: May 03, 2018
SODIUM ACETATE TRIHYDRATE Version: 2/en

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY / UNDERTAKING			
Trade name	Sodium Acetate Trihydrate		
Synonyms	Vinegar sodium salt, acetic acid sodium salt hydrate, Natrium Acetat, Natrium Aceticum.		
REACH registration number	01-2119485123-42-0037		
Recommended use and restriction on use	Use as a preservative in food, feed and pharmaceutical applications. Used as additive in industrial and laboratory applications. Use according to local regulations.		
Company	Macco Organiques Inc., 100 McArthur, suite 112, Salaberry-de-Valleyfield, Qc, Canada, J6S 4M5		
Responsable service	Tel: (450) 371-1066 macco@macco.ca	Fax: (450) 371-5519 http://www.macco.ca	
Emergency phone numbers	CANUTEC (613) 996-6666	CHEMTREC, U.S. (800) 424-9300	International (703) 527-3887

2. HAZARDS IDENTIFICATION			
The substance is not classified as dangerous according to European Union (EU) directives 1272/2008, in replacement for 67/548/EEC including amendments and 1999/45/EC.			
Classification	Not classified.		
Labeling type instruction	This product does not require any labeling according to EU directives and regulations of the concerned country.		
Other hazards	Combustible dust. May form explosive mixture with air.		

3. COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical name	Sodium acetate 100%	
Synonyms	Vinegar sodium salt, acetic acid sodium salt, Natrium Acetat, Natrium Aceticum.	
Chemical formula	C ₂ H ₃ O ₂ Na•3H ₂ O	
CAS no.	6131-90-4	
EEC (CE) no.	E 262i	
EINECS no.	204-823-8	

4. FIRST-AID MEASURES		
DESCRIPTION OF FIRST AID EMERGENCIES		
General advices	In case of accident or illness, immediately get medical attention (show the label if possible). Show this safety data sheet to the physician. Remove and wash contaminated clothing before reusing.	
Inhalation	If inhaled, move the person to fresh air. If not breathing, give artificial respiration. Get medical attention if any symptoms occur.	

Authorisation Date: 03 MA 18

Prepared by: FB

Page 1 of 10

Authorized by: HL



Trade Name: Edition: May 03, 2018
SODIUM ACETATE TRIHYDRATE Version: 2/en

Skin contact	Rinse with water and wash with soap. Obtain medical attention if any symptoms occur.		
Eye contact	In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if any symptoms occur.		
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if any symptoms occur.		
POTENTIAL ACUTE HEALTH EFFECTS			
Inhalation	Slightly hazardous in case of inhalation (lung irritant).		
Ingestion	Not considered to be toxic to humans.		
Skin	Slightly hazardous in case of skin contact (irritant).		
Eyes	Slightly hazardous in case of eye contact (irritant).		
Potential chronic health effect	Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: No observed effects. Teratogenic effects: No observed effects.		
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.		
Notes to physician	No specific antidote. Medical staff must contact a Poisons Information Center.		
For more detailed information on health effects and symptoms, refer to section 11.			

5. FIRE-FIGHTING MEASURES		
APPROPRIATE EXTINGUISHING MEDIA		
Suitable	Carbon dioxide (CO ₂)	
	Water spray	
	Foam	
	Dry powder	
	Use an extinguishing agent suitable for the surrounding fire.	
Not suitable	None known.	
Special exposure hazards	No specific hazard.	
Risks associated with thermal decomposition products	Under fire conditions or above decomposition temperature, emits carbon monoxide, carbon dioxide, sodium carbonate and sodium oxide. Sodium acetate can burn if heated to decomposition.	
Other fire-fighting measures	Fire residues and contaminated firefighting water must be disposed of according to local and national regulations.	
Special protective equipment	Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For individual protection equipment, refer to section 8.	
Special risks	Sodium acetate can burn if heated to decomposition. Similar to dust of most combustible compounds, under certain conditions the airborne dust of this substance may explode when ignited by a spark, flame or other ignition sources. When evaluating the explosion hazard potential for the material, consider particle shape and size, dust concentration, presence of impurities, oxygen concentration, humidity and extent of containment.	

Authorisation Date: 03 MA 18
Prepared by: FB

Page 2 of 10

Authorized by: HL



Edition: May 03, 2018 Trade Name: SODIUM ACETATE TRIHYDRATE Version: 2/en

6. ACCIDENTAL RELEASE MEASURES		
Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment. For individual protective equipment, refer to section 8.	
Environmental precautions	Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.	
Cleaning methods	If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Dispose of as special waste according to local and national regulations. Thoroughly clean the floor and objects contaminated by observing environmental regulations. Refer to section 7 for handling directives.	

7. HANDLING AND STORAGE		
Handling directives	Avoid dust formation during handling. DO NOT INGEST without prior transformation. Avoid all possible sources of ignition (spark or flame). Dry sweeping is not recommended. Do not perform any welding, cutting, drilling or other work that is susceptible to cause heat on or near empty container or transfer equipment until all combustible solids have been removed. Avoid dust accumulation. Pre-wet the material or use a vacuum equipped with high efficiency filter(s). The use of compressed air to clean equipment, clothing, etc. is not recommended. Provide ventilation and/or adequate ventilation in the working area. Refer to section 6 for environmental precautions.	
Fire and explosion protection recommendations	Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. NO SMOKING.	
Requirements for warehouses and containers	Store in a tightly closed container in a dry, cool and well-ventilated area.	
Storage information compatibility	Combustible material. Keep away from incompatible materials such as reactive metals and strong acids, or oxidizing agents. Keep away from food, drink and animal feeding stuffs.	
Storage recommendations	Store in a tightly closed container in a dry, cool and well-ventilated area.	
Storage temperature	< 30 ℃, not critical.	
	Store away from direct sunlight.	
General hygiene	Eating, drinking and smoking in work area is prohibited, wash hands after use and remove contaminated clothing and protective equipment before entering eating areas.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Personal protective equipment must be selected and used according to local laws and regulations. In the EU Personal Protection Equipment are managed through the Council Directive 89/686/EEC.		
Professional exposure limits	TWA PEL: No specific exposure limit has been established for this material. For reference, OSHA and ACGIH have established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR) 15mg/cu. meter.	

Authorisation Date: 03 MA 18 Prepared by: FB

Page 3 of 10



Trade Name:
SODIUM ACETATE TRIHYDRATE

Edition: May 03, 2018
Version: 2/en

Recommended monitoring procedures	If this product is present at levels above the exposure limit, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for the determination hazardous substances.		
Occupational exposure controls	No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels to an acceptable limit. If the exposure exceeded the limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.		
Respiratory protection	A respirator is not needed under normal or intended conditions of product use. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Reference should be made to European Standard EN 374.		
Eye protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Reference should be made to European Standard EN 166.		
Body and skin protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
General protection and hygiene measures	Avoid dust inhalation. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the working area.		
Technical measures	Provide adequate ventilation, especially in confined areas. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance (physical	White crystalline powder.	
state & colour)		

Authorisation Date: 03 MA 18 Prepared by: FB



Edition: May 03, 2018 Trade Name: SODIUM ACETATE TRIHYDRATE Version: 2/en

Odour	Odorless			
Odour threshold	Not available			
pH	7.5 to 9.2			
Temperature	20℃			
Concentration	(3% p/v)			
Melting point	58℃ (136°F)			
Boiling point	Not applicable			
Flash point	Not applicable			
Evaporation rate	Not applicable			
Flammability	Low, however airborne dust may present hazard			
Explosive properties	Risks of explosion of the product in presence of mechanical impact: Not applicable. Risks of explosion of the product in presence of static discharge: Not applicable, except for airborne dust. Maximum explosion pressure: No data available. Maximum rate of pressure rise: No data available.			
Vapour pressure	0 kPa (0 mm Hg) (at 20℃)			
Vapour density	Not applicable			
Relative density	Not available			
Bulk density	0.80 - 0.96 g/ml			
Water solubility	76.2 g/100 ml water	125 g/100 ml water	167g/100 ml water	
Temperature	0℃	25℃	100℃	
Note: Freely soluble in cold a	and hot water, slightly soluble	in ethanol and methanol. Inso	luble in acetone and benzene.	
Partition coefficient (n-octanol/water) (log value)	Not available			
Measure type				
Auto-ignition temperature	Not available			
Decomposition temperature	Loses water above 100°C, thermal decomposition > 400 ℃			
Viscosity	Not available			

10. STABILITY AND REACTIVITY			
Reactivity	No known reactivity under normal conditions of use.		
Stability	Stable, thermal decomposition > 400 ℃		
Hazardous reactions	No dangerous reaction known under normal conditions of use.		
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).		
Materials to avoid	Reactive with strong acids and oxidizing materials. Slightly corrosive with metals.		

Authorisation Date: 03 MA 18 Prepared by: FB



Trade Name: Edition: May 03, 2018
SODIUM ACETATE TRIHYDRATE Version: 2/en

Hazardous	Under fire conditions or above decomposition temperature emits carbon monoxide,
decomposition products	carbon dioxide, sodium carbonate and sodium oxide.

11. TOXICOLOGICAL INFORMATION					
Oral toxicity	3500 mg/kg 4960 mg/kg				
Test criteria	LD ₅₀ LD ₅₀				
Species used for the test	Rat	Mouse			
Note: No known significant	effects or critical hazard.				
Inhalation Toxicity	> 30 000 mg/m ³				
Test criteria	LC ₅₀				
Species used for the test	Rat				
Note: No known significant	effects or critical hazard.				
Skin toxicity	>10 000 mg/kg				
Test criteria	LD ₅₀	LD ₅₀			
Species used for the test	rabbit				
Human Experience	No known significant effect or critical hazards.				
Skin corrosion/irritation	Slightly hazardous in case of skin contact (irritant) but not sufficient to cause classification.				
Serious eye damage/irritation	Slightly hazardous in case of eye contact (irritant) but not sufficient to cause classification.				
Skin sensitization	No sensibility reaction observed. Prolonged contact with concentrated solutions may cause redness, drying and cracking of the skin (dermatitis)				
Other Toxicity	No known significant effects or critical hazard.				
Mutagenicity (germ cell) Reproduction	No known significant effect or critical hazards.				
Carcinogenicity	No known significant effect or critical hazards.				
Developmental toxicity (maternal and teratoxicity)	NOAEL (No-observed-adverse-effect level) : 1000 mg/kg/day, Rat / Mouse / Rabbit				
STOT-single exposure	NOAEL (No-observed-adverse-effect level) : Not available				
STOT-Repeated exposure	LOAEL (Lowest-observed-adverse-effect level) = 3600 mg/kg/day, rat, 28 days				

12. ECOLOGICAL INFORMATION			
Ecotoxicity			
Toxicity to fish	5000 mg/l (static)	> 10000 mg/l (static)	
Test criteria	LC ₅₀	LT ₅₀	
Species used for the test	Lepomis macrochirus	Pimephales promelas	
Exposure time	24 h	>96 h	

Authorisation Date: 03 MA 18

Prepared by: FB



Trade Name: Edition: May 03, 2018
SODIUM ACETATE TRIHYDRATE Version: 2/en

Toxicity to bacteria	Not available				
Test criteria	Not available				
Species used for the test	Not available				
Administration duration	Not available				
Toxicity to daphnies	7170 mg/l (Static)				
Test criteria	LC ₅₀				
Species used for the test	Daphnia magna				
Exposure time	24 h				
Toxicity to algae	820 mg/l				
Test Criteria					
Species used for the test	Anabaena sp.				
Exposure time	20 d				
Biodegradability	Readily biodegradable				
Persistance	Not persistent				
Bioaccumulation	No bioaccumulation potential				
Mobility in soil	1.21 (acetic acid)				
Note: Acetic acid will partition readily into soil, sediment, or biota. Similarly, acetic acid in these media would tend to move to water or ground-water if available.					
Bioconcentration Coefficient factor (BCF)	Not available				
Determination results for PTB properties	PBT (Persistent, Bioaccumulation and toxic) and vPvB (Very Persistent and Very Bioaccumulative) evaluation: Not applicable				
Notes: May be harmful to freshwater aquatic species and to plants that are not saline tolerant. This product will contribute to the total Biological Oxygen Demand (BOD).					
Other adverse effects: No known significant effects or critical hazards.					

13. DISPOSAL CONSIDERAT	13. <u>DISPOSAL CONSIDERATIONS</u>		
Waste residues information	The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewer. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation, and any national and local authority requirements. Refer to section 7 for handling directives and section 8 for exposure controls and personal protections.		
Contaminated packaging	Dispose of as waste residues.		
Waste classification	Not classified		
European waste catalogue (EWC)	Not classified		
Hazardous waste	To the knowledge of the supplier, this product is not regarded has a hazardous waste as define in the guideline 94/904/EC.		

Authorisation Date: 03 MA 18 Prepared by: FB Page 7 of 10

Authorized by: HL



Trade Name:Edition: May 03, 2018SODIUM ACETATE TRIHYDRATEVersion: 2/en

14. TRANSPORT INFORMATIONS						
	INTERNATIONAL TRANSPORT REGULATIONS					
Regulatory Information	Proper shipping name	Class	UN Numbe	er PG	Label	Additional information
ADR/RID Class	Not applicable	-	Not regulate	ted -	-	-
ADNR Class	Not applicable	-	- Not regulate		-	-
IMDG Class	Not applicable	- Not regulated		ted -	-	-
IATA Class	Not applicable	- Not regulated		ted -	-	-
DOT Class	Not applicable	- Not regulat		ted -	-	-
TDG Class Not applicable - Not regulate				ted -	-	-
ADR/RID: European road and rail transport regulation. ADNR: Rhine maritime transport regulation. IMDG: International maritime dangerous goods regulation. IATA/DGR: International air transport regulation.				TMD: T	epartment of transporansport of dangerouckaging group.	•

15. REGULATORY INFORMATIONS			
EUROPEAN UNION REGULATIONS			
Classifications	This product is not classified according to EU legislation, including SVHC and RoHS.		
Contains	Not applicable		
Product use	Classification and labelling have been performed according to EU directives 1272/2008 (including amendments) replacing 67/548/EEC and 1999/45/EC and according to the intended use. Industrial applications.		
	U.S.A		
HCS classification	Not regulated		
U.S.A. federal regulations	TSCA 8(b) inventory: acetic acid, sodium salt		
	SARA 302/304/311/312 extremely hazardous substances: Not listed.		
	SARA 302/304 emergency plan and notification: Not listed.		
	SARA 302/304/311/312 hazardous chemicals: Not listed.		
	SARA 311/312 MSDS distribution – chemical inventory – hazard identification: Not listed.		
	CWA (Clean Water Act) 307: Not listed.		
	CWA (Clean Water Act) 311: Not listed.		
	CAA (Clean Air Act) 112 accidental release prevention: Not listed.		
	CAA (Clean Air Act) 112 regulated flammable substances: Not listed.		
	CAA (Clean Air Act) 112 regulatory toxic substances: Not listed.		
	Defined as non hazardous by Occupational Safety and Health Administration (OSHA) hazard communication standard 29 CFR 910.1200(d).		
State regulations	California prop. 65: Not listed.		

Authorisation Date: 03 MA 18 Prepared by: FB

risation Date: 03 MA 18



Trade Name:Edition: May 03, 2018SODIUM ACETATE TRIHYDRATEVersion: 2/en

			CANAI	DA			
WHMIS (Canada) Listed, not r CEPA DSL:		regulated : Acetic acid, sodium salt					
This product has the information re			rdance with the h	azard criteria of the CPR	and the MSDS contains all		
National Fire	nal Fire		Hazardous	HMIS Rating			
Protection			Material	Health	0		
Association (U.S.A.)			Information System	Fire hazard	1		
			(U.S.A.)	Physical hasard	0		
				Personal protection	С		
4- Extreme Blue : Health		Health	4- Extreme				
3- Serious	Serious Red : Flammability		3- Serious				
2- Moderate	Yellow	-	2- Moderate 1- Slight 0- Minimal				
1- Slight 0- Minimal	Reacti	•					
U- Willilliai	White	: Special					
		C	THER COUNTRY	INVENTORIES			
AICS		Listed, not	regulated				
ENCS Listed, not it		regulated					
IESCSC Listed, not r		regulated					
PICCS Listed, not r		regulated					
KECL	ECL Listed, not re		regulated				
NZIOC		Listed, not regulated					

Authorisation Date: 03 MA 18

Prepared by: FB

Page 9 of 10

Authorisation Date: 03 MA 18



Trade Name:	Edition: May 03, 2018
SODIUM ACETATE TRIHYDRATE	Version: 2/en

16. OTHER INFORMATIONS			
Other information	General update of the document.		
Department issuing the safety data sheet	Technical Services, Macco		
HISTORY			
Edition date	03MA18		
Previous edition date	26SE16		

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials or preparation may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

References:

Supporting documents for Initial Risk-Based Prioritization of High Production Volume Chemicals – Carboxylic Food Acids and Salts Category

Appendix 1 DID list, Detergents Ingredients Database version January 2007

EFSA Panel on Additives and Products or Substances used in Animal Feed (FEEDAP); Scientific

PAN pesticide database, www.pesticideinfo.org, accessed on September 26, 2016.

TOXNET database, www.toxnet.nlm.nih.gov, accessed on September 26, 2016.

CSST- Service du répertoire toxicologique, www.csst.qc.ca/prevention/reptox/Pages/repertoiretoxicologique.aspx, accessed on September 26, 2016.

C&L Inventory database http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database, accessed on September 26, 2016.

Authorisation Date: 03 MA 18 Page 10 of 10 Authorized by: HL Prepared by: FB