

# SAFETY DATA SHEET



## Sodium Acetate

### 1. Identification of the substance/preparation and company/undertaking

#### Identification of the substance or preparation

**Product name** : Sodium Acetate  
**Chemical name** : Acetic acid, sodium salt  
**Synonyms** : Sodium acetate, hydrate; Vinegar sodium salt.  
**Chemical formula** : Na(CH<sub>3</sub>COO)  
**CAS no.** : 127-09-3  
**EEC #** : E-262i  
**EINECS no.** : 204-823-8  
**NAFTA#** : 2915.22.0000

**Use of the substance/preparation** : Used as a dye and color intermediate; intanning, photography, pharmaceuticals, soaps, medicine, buffer, laboratory reagent, food additive.

#### Company/undertaking identification

**Manufacturer** : Macco Organiques Inc., 100 McArthur, Valleyfield, Qc, Canada, J6S 4M5  
Tel: (450) 371-1066 Fax: (450) 371-5519  
macco@macco.ca http://www.macco.ca

**Emergency telephone number** : CANUTEC (613) 996-6666  
CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

### 2. Composition/information on ingredients

**Substance/preparation** : Substance: This substance (pure product) is not controlled under the Dangerous Substance Directive in Europe, the Hazard Communication Standard in the United States, and the Workplace Hazardous Material Information System in Canada

Ingredient name *	CAS number	%	EC number	Classification
<b>Europe</b> See remark below. <b>See section 16 for the full text of the R-phrases declared above</b> <b>United States of America</b> Defined as non-hazardous by OSHA under 29 CFR 1910.1200(d). <b>Canada</b> Not controlled under WHMIS (Canada).				

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

Occupational exposure limits, if available, are listed in section 8.

\* Toxicological Values, if available, are listed in section 11

\* PIN, if available, are listed in section 14

### 3. Hazards identification

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : Not classified.  
**Physical/chemical hazards** : Combustible dust. May form explosive mixtures with air.  
**Human health hazards** : Practically non-toxic in contact with skin.  
**Physical state** : Solid. (Crystalline granules.). Deliquescent solid.



- Emergency overview** : No specific hazard.  
USE WITH CARE.  
During formulation, follow good industrial hygiene practice.
- Routes of entry** : Inhalation. Skin contact. Eye contact. Ingestion.

## 4. First-aid measures

### First-aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin contact** : Wash with soap and water. Obtain medical attention if symptoms occur.
- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Obtain medical attention if symptoms occur.
- 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 contact Poisons Information Centre.
- 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 effects** : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.  
Mutagenic effects: Not available.  
Teratogenic effects: Not available.
- Medical conditions aggravated by over-exposure** : Prolonged contact with concentrated solutions may cause redness, drying and cracking of the skin (dermatitis).

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

### Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : Under fire conditions or above decomposition temperature, emits carbon monoxide and dioxide, acetone and calcium carbonate.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Remark** : Under certain conditions, airborne dust of calcium acetate can explode when ignited by an electrostatic spark or other ignition source.

\* See section 9 and 10 for reactivity data.

## 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilt material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

## 7. Handling and storage

- Handling** : Avoid dusting when handling. Do not ingest. Keep away from incompatibles such as metals and strong acids, or oxidizing agents. Keep container tightly closed in a cool, well-ventilated place.
- Store in a dry, cool and well-ventilated area. Store and use away from heat, sparks, open flame or any other ignition source. Store away from direct sunlight. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Packaging materials**
- Recommended** : Store in tightly-closed container.

## 8. Exposure controls/personal protection

### Ingredient name

Potassium acetate

### Occupational exposure limits

TWA PEL: No specific exposure limit has been established for this material. One can consider OSHA and ACGIH Particles Not Otherwise Specified Limits of 15 mg/cu meter.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, 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 methods for the determination of hazardous substances.

### Exposure controls

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Respiratory protection** : 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.  
>8 hour(s) (breakthrough time): Natural rubber (latex).
- 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.  
Recommended: Safety glasses.
- 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.  
Body: Recommended: Lab coat.



- Hygiene measures** : 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 workstation location.
- Environmental exposure controls** : 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

### General information

#### Appearance

- Physical state** : Solid. (Crystalline granules.). Deliquescent solid.  
**Colour** : White.  
**Odour** : Acetic acid. (Slight.)  
**Molecular weight** : 82.04 g/mole

### Important health, safety and environmental information

- pH** : 7,5 to 9,2 (3% w/v)  
**Boiling point** : 324°C (615.2°F)  
**Melting point** : 324°C (615°F) (Anhydrous). 58°C (136°F) (Trihydrate).  
**Vapour pressure** : 0 kPa (0 mm Hg) (at 20°C)  
**Relative density** : 0,38-1,04 g/mL  
**Solubility** : Soluble in cold water, ethanol and methanol. 119g/100 ml at 0°C and 170.5g/100 ml at 100°C (Anhydrous) or 76.2g/100 ml at 0°C and 139g/100 ml at 50°C (Trihydrate) in water. Insoluble in acetone and benzene.

### Other information

- Auto-ignition temperature** : 560°C (1040°F).  
**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: 620 kPa (6.2 bar);  
 Maximum rate of pressure rise: 667 kPa/sec (6.7bar/sec, 4600 psi/sec).

## 10. Stability and reactivity

- Stability** : The product is stable.  
**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.  
**Hazardous decomposition products** : Under fire conditions or above decomposition temperature, emits carbon monoxide and dioxide, acetone and calcium carbonate.

## 11. Toxicological information

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : Slightly hazardous in case of skin contact (irritant).  
**Eye contact** : Slightly hazardous in case of eye contact (irritant).

### Acute toxicity

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Acetic acid, sodium salt	LD50	3530 mg/kg	Oral	Rat
	LD50	6891 mg/kg	Oral	Mouse
	LD50	6900 mg/kg	Oral	Mouse
	LD50	>10000 mg/kg	Dermal	Rabbit

### Potential chronic health effects

- Chronic toxicity** : Prolonged contact with concentrated solutions may cause redness, drying and cracking of the skin (dermatitis).  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Reproductive toxicity** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin** : No known significant effects or critical hazards.



## 12. Ecological information

- Ecotoxicity** : May be harmful to freshwater aquatic species and to plants that are not saline tolerant. This product will contribute to the total BOD.
- Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

- Methods of disposal;**  
**Waste residues information;**  
**Contaminated packaging** : 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 regional local authority requirements.
- Waste classification** : Not applicable.
- European waste catalogue (EWC)** : Not available.
- Hazardous waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 94/904/EC

## 14. Transport information

### International transport regulations

Regulatory information	Proper shipping name	Class	UN number	PG	Label	Additional information
<b>ADR/RID Class</b>	Not applicable.	-	Not regulated.	-		-
<b>ADNR Class</b>	Not applicable.	-	Not regulated.	-		-
<b>IMDG Class</b>	Not applicable.	-	Not regulated.	-		-
<b>IATA Class</b>	Not applicable.	-	Not regulated.	-		-
<b>DOT Class</b>	Not applicable.	-	Not regulated.	-		-
<b>TDG Class</b>	Not applicable.	-	Not regulated.	-		-

ADR/RID: European road and rail transport regulation.

ADN: Rhine maritime transport regulation.

IMDG: International Maritime Dangerous Goods regulation.

IATA/DGR: International Air Transport regulation.

DOT: Department of Transportation Regulation.

TDG: Transport of Dangerous Goods regulation.

## 15. Regulatory information

### EU regulations

- Risk phrases** : This product is not classified according to EU legislation.
- Contains** : Not applicable.
- Product use** : Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.  
- Industrial applications.

### Other EU regulations

- EU statistical classification (Tariff Code)** : 2915 22 00

### United States

- HCS Classification** : Not regulated.
- U.S. Federal regulations** : TSCA 8(b) inventory: Acetic acid, sodium salt



SARA 302/304/311/312 extremely hazardous substances: Not listed.  
 SARA 302/304 emergency planning and notification: Not listed.  
 SARA 302/304/311/312 hazardous chemicals: Not listed.  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Not listed.  
 Clean Water Act (CWA) 307: Not listed.  
 Clean Water Act (CWA) 311: Not listed.  
 Clean Air Act (CAA) 112 accidental release prevention: Not listed.  
 Clean Air Act (CAA) 112 regulated flammable substances: Not listed.  
 Clean Air Act (CAA) 112 regulated toxic substances: Not listed.

**State regulations**

: California prop. 65 : Not listed.

**Canada**

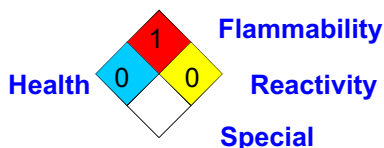
**WHMIS (Canada)**

: Not regulated.

CEPA DSL: Acetic acid, sodium salt

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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



**Hazardous Material Information System (U.S.A.)**

**HMIS RATING**

Health	0
Fire hazard	1
Physical Hazard	0
Personal protection	C

4- Extreme/Extrême  
 3- Serious/Sévère  
 2- Moderate/Modéré  
 1- Slight/Faible  
 0- Minimal/Minimum

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**References**

: ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List". - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.

**16. Other information**

**History**

**Date of issue** : 16 FE 2009  
**Date of previous issue** : 15 DE 2005  
**Version** : 4

**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 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.