# Acetyl coenzyme A sodium salt

### sc-210745





The Power to Question

Hazard Alert Code Key:

EXTREME

HIGH

MODERATE

LOW

### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NAME

Acetyl coenzyme A sodium salt

### STATEMENT OF HAZARDOUS NATURE

Not considered a hazardous substance according to OSHA 29 CFR 1910.1200.



### **SUPPLIER**

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# **EMERGENCY**: ChemWatch

Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255

(1-800-CHEMCALL) or call +613 9573 3112

#### SYNONYMS

C23-H38-N7-O17-P3-S.Na, "acetyl coenzyme A sodium salt"

### **Section 2 - HAZARDS IDENTIFICATION**

### **CHEMWATCH HAZARD RATINGS**

|               |   | Min | Max                 |
|---------------|---|-----|---------------------|
| Flammability: | 1 |     |                     |
| Toxicity:     | 0 |     |                     |
| Body Contact: | 0 |     | Min/Nil=0<br>Low=1  |
| Reactivity:   | 1 |     | Moderate=2          |
| Chronic:      | 0 |     | High=3<br>Extreme=4 |

### **CANADIAN WHMIS SYMBOLS**

None

**EMERGENCY OVERVIEW** 

#### **RISK**

### **POTENTIAL HEALTH EFFECTS**

### **ACUTE HEALTH EFFECTS**

#### **SWALLOWED**

■ The material has NOT been classified as "harmful by ingestion".

This is because of the lack of corroborating animal or human evidence.

#### EYE

■ Although the material is not thought to be an irritant, direct contact with the eye may cause transient discomfort characterized by tearing or conjunctival redness (as with windburn).

Slight abrasive damage may also result.

#### SKIN

- The material is not thought to produce adverse health effects or skin irritation following contact (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting
- Open cuts, abraded or irritated skin should not be exposed to this material.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

#### **INHALED**

- The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
- Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

#### **CHRONIC HEALTH EFFECTS**

■ Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified using animal models); nevertheless exposure by all routes should be minimized as a matter of course.

Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung.

| Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS |             |     |  |  |
|--|-------------|-----|--|--|
| NAME   | CAS RN      | %   |  |  |
| coenzyme A acetyl derivative (C2:0), sodium salt     | 102029-73-2 | >98 |  |  |

## Section 4 - FIRST AID MEASURES

#### **SWALLOWED**

· Immediately give a glass of water. · First aid is not generally required. If in doubt, contact a Poisons Information Center or a doctor.

#### FVF

■ If this product comes in contact with eyes: · Wash out immediately with water. · If irritation continues, seek medical attention.

#### SKIN

■ If skin or hair contact occurs: · Flush skin and hair with running water (and soap if available). · Seek medical attention in event of irritation.

#### INHALED

 $\cdot$  If dust is inhaled, remove from contaminated area.  $\cdot$  Encourage patient to blow nose to ensure clear passage of breathing.  $\cdot$  If irritation or discomfort persists seek medical attention.

#### **NOTES TO PHYSICIAN**

■ Treat symptomatically.

| Section 5 - FIRE FIGHTING MEASURES |                |  |  |  |
|------------------------------------|----------------|--|--|--|
| Vapour Pressure (mmHG):            | Negligible     |  |  |  |
| Upper Explosive Limit (%):         | Not available. |  |  |  |
| Specific Gravity (water=1):        | Not available  |  |  |  |
| Lower Explosive Limit (%):         | Not available  |  |  |  |

#### **EXTINGUISHING MEDIA**

· Water spray or fog.

· Foam.

#### **FIRE FIGHTING**

- · Alert Emergency Responders and tell them location and nature of hazard.
- · Wear breathing apparatus plus protective gloves.

#### GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- $\cdot$  Combustible solid which burns but propagates flame with difficulty.
- · Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust may burn rapidly and fiercely if ignited.

Combustion products include: carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOx), phosphorus oxides (POx), sulfur oxides (SOx), other pyrolysis products typical of burning organic material.

#### FIRE INCOMPATIBILITY

■ Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result.

#### PERSONAL PROTECTION

Glasses:

Chemical goggles.

Gloves:

Respirator:

Particulate

### **Section 6 - ACCIDENTAL RELEASE MEASURES**

#### MINOR SPILLS

- · Clean up all spills immediately.
- · Avoid contact with skin and eyes.

**MAJOR SPILLS** 

- · Clear area of personnel and move upwind.
- · Alert Emergency Responders and tell them location and nature of hazard.

### **Section 7 - HANDLING AND STORAGE**

#### PROCEDURE FOR HANDLING

- · Limit all unnecessary personal contact.
- · Wear protective clothing when risk of exposure occurs.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers.
- · In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

#### **RECOMMENDED STORAGE METHODS**

- · Lined metal can, Lined metal pail/drum
- · Plastic pail.

### STORAGE REQUIREMENTS

- · Store in original containers.
- · Keep containers securely sealed.

### **Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **EXPOSURE CONTROLS**

| Source   | Material   | TWA ppm | TWA<br>mg/m³ | STEL ppm | STEL<br>mg/m³ | Peak ppm | Peak<br>mg/m³ | TWA F/CC | Notes |
|--|--|---------|--------------|----------|---------------|----------|---------------|----------|-------|
|  | coenzyme A   |         |              |          |               |          |               |          |       |
| Canada -<br>Ontario<br>Occupational<br>Exposure Limits | acetyl derivative<br>(C2:0), sodium<br>salt (Particles<br>(Insoluble or<br>Poorly Soluble)<br>Not Otherwise) |         | 10 (I)       |          |               |          |               |          |       |

| Canada - British<br>Columbia<br>Occupational<br>Exposure Limits                       | coenzyme A acetyl derivative (C2:0), sodium salt (Particles (Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC))               | 10 (N) |   |
|---|--|--------|---|
| Canada -<br>Ontario<br>Occupational<br>Exposure Limits                                | coenzyme A acetyl derivative (C2:0), sodium salt (Specified (PNOS) / Particules (insolubles ou peu solubles) non précisées par ailleurs) | 3 (R)  |   |
| US - Tennessee<br>Occupational<br>Exposure Limits<br>- Limits For Air<br>Contaminants | coenzyme A acetyl derivative (C2:0), sodium salt (Particulates not otherwise regulated Respirable fraction)                              | 5      |   |
| US - California<br>Permissible<br>Exposure Limits<br>for Chemical<br>Contaminants     | coenzyme A acetyl derivative (C2:0), sodium salt (Particulates not otherwise regulated Respirable fraction)                              | 5      | (n)   |
| US - Oregon<br>Permissible<br>Exposure Limits<br>(Z-1)                                | coenzyme A acetyl derivative (C2:0), sodium salt (Particulates not otherwise regulated (PNOR) (f) Total Dust)                            | 10     | Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the federal Limits. PNOR means "particles not otherwise regulated." |
| US - Michigan<br>Exposure Limits<br>for Air<br>Contaminants                           | coenzyme A acetyl derivative (C2:0), sodium salt (Particulates not otherwise regulated, Respirable dust)                                 | 5      |   |
| US - Oregon<br>Permissible<br>Exposure Limits<br>(Z-1)                                | coenzyme A acetyl derivative (C2:0), sodium salt (Particulates not otherwise - regulated (PNOR) (f) Respirable Fraction)                 | 5      | Bold print identifies substances for which the Oregon Permissible Exposure Limits (PELs) are different than the   |

federal Limits. PNOR means "particles not otherwise regulated."

See Appendix

TLV/BEI Book

B current

Coenzyme A
US - Wyoming acetyl derivative
(C2:0), sodium
Hazardous salt (Particulates
Substances not otherwise
Table Z1 Limits regulated
for Air (PNOR)(f)Contaminants

Coenzyme A
acetyl derivative
(C2:0), sodium
regulates
(Particulates
(PNOR)(f)Respirable

coenzyme A acetyl derivative

Canada - Prince (C2:0), sodium
Edward Island salt (Particles
Occupational (Insoluble or

fraction)

Exposure Limits Poorly Soluble) [NOS] Inhalable

particles)

**ENDOELTABLE** 

### PERSONAL PROTECTION





5

10



#### **RESPIRATOR**

• particulate.

#### **EYE**

- · Safety glasses with side shields
- · Chemical goggles.

### HANDS/FEET

- Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:
- frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and
- · dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.
- · Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- · polychloroprene
- · nitrile rubber
- · butyl rubber
- · fluorocaoutchouc
- · polyvinyl chloride

Gloves should be examined for wear and/ or degradation constantly.

#### OTHER

■ No special equipment needed when handling small quantities.

OTHERWISE:

- · Overalls.
- · Barrier cream.

#### **ENGINEERING CONTROLS**

- · Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
- · Exhaust ventilation should be designed to prevent accumulation and recirculation of particulates in the workplace.

### **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

## **PHYSICAL PROPERTIES**

Solid.

Mixes with water.

| State                     | Divided solid  | Molecular Weight               | 809.(free acid) |
|---------------------------|----------------|--------------------------------|-----------------|
| Melting Range (°F)        | Not available  | Viscosity                      | Not Applicable  |
| Boiling Range (°F)        | Not available  | Solubility in water (g/L)      | Miscible        |
| Flash Point (°F)          | Not available  | pH (1% solution)               | Not applicable  |
| Decomposition Temp (°F)   | Not available. | pH (as supplied)               | Not applicable  |
| Autoignition Temp (°F)    | Not available  | Vapour Pressure (mmHG)         | Negligible      |
| Upper Explosive Limit (%) | Not available. | Specific Gravity (water=1)     | Not available   |
| Lower Explosive Limit (%) | Not available  | Relative Vapor Density (air=1) | Not Applicable  |
| Volatile Component (%vol) | Negligible     | Evaporation Rate               | Not applicable  |

#### **APPEARANCE**

White powder; mixes with water.

### **Section 10 - CHEMICAL STABILITY**

#### **CONDITIONS CONTRIBUTING TO INSTABILITY**

■ Product is considered stable and hazardous polymerization will not occur.

#### STORAGE INCOMPATIBILITY

■ Avoid contamination of water, foodstuffs, feed or seed.

Avoid reaction with oxidizing agents.

For incompatible materials - refer to Section 7 - Handling and Storage.

### **Section 11 - TOXICOLOGICAL INFORMATION**

coenzyme A acetyl derivative (C2:0), sodium salt

#### **TOXICITY AND IRRITATION**

### COENZYME A ACETYL DERIVATIVE (C2:0), SODIUM SALT:

■ No significant acute toxicological data identified in literature search.

### **Section 12 - ECOLOGICAL INFORMATION**

No data

**Ecotoxicity** 

Persistence: Water/Soil Persistence: Air Bioaccumulation Mobility

coenzyme A

acetyl derivative

No Data Available No Data Available

(C2:0), sodium

salt

### **Section 13 - DISPOSAL CONSIDERATIONS**

### **Disposal Instructions**

All waste must be handled in accordance with local, state and federal regulations.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- · Reduction
- · Reuse
- · Recycling
- · Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning equipment to enter drains. Collect all wash water for treatment before disposal.

- · Recycle wherever possible.
- · Consult manufacturer for recycling options or consult Waste Management Authority for disposal if no suitable treatment or disposal facility can be identified.

### **Section 14 - TRANSPORTATION INFORMATION**

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: DOT, IATA, IMDG

### **Section 15 - REGULATORY INFORMATION**

coenzyme A acetyl derivative (C2:0), sodium salt (CAS: 102029-73-2) is found on the following regulatory lists:

"US - California Air Toxics ""Hot Spots"" List (Assembly Bill 2588) Substances for which emissions must be quantified"

### Section 16 - OTHER INFORMATION

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  A list of reference resources used to assist the committee may be found at:

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- The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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