

2211 LEWIS AVENUE - ROCKVILLE, MD 20851 USA TEL 301.881.2450 FAX 301.881.5374 tousimis.com trc@tousimis.com

# SAFETY DATA SHEET SODIUM CACODYLATE, TRIHYDRATE

CATALOG #2109 98% crystalline powder

#### 1. IDENTIFICATION

Product name: SODIUM CACODYLATE, TRIHYDRATE

Relevant identified uses of the substance or mixture and uses advised against.

**Identified use:** SU24 Scientific research and development

#### **COMPANY IDENTIFICATION**

TOUSIMIS RESEARCH CORP. 2211 LEWIS AVENUE ROCKVILLE, MARYLAND 20851 UNITED STATES

#### **Company Contact Information:**

301-881-2450

trc@tousimis.com

#### **EMERGENCY TELEPHONE NUMBER**

24-Hour Emergency Contact: 1-800-222-1222

#### 2. HAZARDS IDENTIFICATION

#### Hazard classification

#### Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable

Not applicable

Information concerning particular hazards for human and environment:

Not applicable

Other hazards that do not result in classification No information known.

#### Label elements

Labelling according to Regulation (EC) No 1272/2008 Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled

2017 1

Classification system
HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 0

Physical Házard = 0

Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable **vPvB:** Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization: Mixtures** 

**Dangerous components:** 

6131-99-3 Cacodylic acid sodium salt trihydrate - 2.14%

T R23/25

N R50/53

Acute Tox. 3

H301

Acute Tox. 3, H331

Additional information None known.

**Non-Hazardous Ingredients** 

7647-01-0 Hydrochloric acid - < 0.1%

C R34

XiR37

Skin Corr. 1B; Eye Dam. 1; STOT SE 3, H335

7732-18-5 Water – 97.76%

#### 4. FIRST AID MEASURES

#### **Description of first aid measures**

#### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm

Seek immediate medical advice.

#### After skin contact

Instantly wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

#### After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

#### After swallowing

Seek medical treatment.

#### Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5. FIREFIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

## Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Sodium oxide

Arsenic oxides (AS2Ox)

## **Advice for firefighters**

## **Protective equipment:**

Wear self-contained respirator.

Wear fully protective impervious suit.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

#### **Environmental precaution**

Do not allow material to be released to the environment without proper governmental

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up: Absorb with liquidbinding material (sand, diatomite, acid binders, universal binders, sawdust).

**Prevention of secondary hazards:** No special measures required.

#### Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Keep in container tightly sealed.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires: The product is not flammable

## Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and containers: Refrigerate Information about storage in one common storage facility:

Protect from heat.

Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive organic and inorganic chemicals.

#### Further information about storage conditions:

Keep container tightly sealed.

Refrigerate

**Specific end use(s)** No further information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

## **Control parameters**

## Components with critical values that require monitoring at the workplace: 7647-01-0 Hydrochloric acid (<0.1%)

PEL (USA) – Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

REL (USA) – Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

TLV (USA) – Ceiling limit value: 2.98 mg/m<sup>3</sup>, 2 ppm

EL (Canada) – Ceiling limit value: Short-term value: C 2 ppm

Additional information: No data

## **Exposure controls**

Personal protective equipment

## General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of work.

Maintain an ergonomically appropriate working environment.

**Breathing equipment:** Use suitable respirator when high concentrations are present.

#### Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material (in minutes) Not determined

Eye protection: Safety glasses

**Body protection:** Protective work clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**General Information** 

**Appearance** 

Form Liquid Color Colorless

Odor Not determined **Odor Threshold** Not determined Hq Not applicable Melting point/range Not determined Not determined **Boiling point/range** Sublimation temperature / start Not determined Inflammability (solid/gaseous) Not determined **Decomposition temperature** Not determined

Self-inflammability Product is not selfigniting.

Not determined Danger of explosion

**Critical values for explosion:** 

Lower Not determined Upper Not determined

Vapor Pressure at 20°C (68°F) 23 hPa (17 mm Hg)

Density Not determined **Relative Vapor Density** Not determined Not determined **Relative Density Evaporation rate** Not determined

Solubility in / Miscibility with Water

Fully miscible

Partition coefficient

(n-octanol/water) Not determined **Dynamic** Not determined Kinematic Not determined

#### Other information

No further relevant information available

#### 10. STABILITY AND REACTIVITY

Reactivity: No information known.

Chemical stability: Stable under recommended storage conditions.

**Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

## Possibility of hazardous reactions:

Water reacts violently with alkali metals.

Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive organic and inorganic chemicals.

Conditions to avoid: No further relevant information available.

**Incompatible materials:** Heat

#### Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Sodium oxide

Arsenic oxides (As2Ox)

## 11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

## Information on toxicological effects

**Acute toxicity:** The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this product.

LD/LC50 values that are relevant for classification: No data

#### Skin corrosion/irritation

May cause irritation

#### Serious eye damage/eye irritation

May cause irritation

#### Sensitization

No sensitizing effect known.

**Germ cell mutagenicity:** The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in this product.

**Carcinogenicity:** No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**Reproductive toxicity:** The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in this product.

Specific target organ system toxicity – repeated exposure: No effects known

Specific target organ system toxicity – single exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

**Additional toxicological information:** To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

**Toxicity** 

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

#### Bioaccumulative potential

No further relevant information available.

#### Mobility in soil

No further relevant information available.

**Ecotoxical effects:** 

**Remark:** Harmful to aquatic organisms

## Additional ecological information;

**General notes:** 

Do not allow product to reach ground water, water course or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

Danger to drinking water if even small quantities leak into the ground.

May cause long lasting harmful effects to aquatic life.

Avoid transfer into the environment.

Harmful to aquatic organisms

#### Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects: No further relevant information available.

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### Recommendation

Consult state, local or national regulations for proper disposal.

**Uncleaned packagings:** 

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleaning agent:** Water, if necessary with cleaning agents.

## 14. TRANSPORT INFORMATION

**UN-Number** 

DOT, ADN, IMDG, IATA Not applicable

**UN proper shipping name** 

DOT, ADN, IMDG, IATA Not applicable

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA Class Not applicable

Packing group

**DOT, IMDG, IATA**Not applicable

Environmental hazards: No

Marine pollutant (IMDG)

Special precautions for user Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

#### UN "Model Regulation"

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### 15. REGULATORY INFORMATION

## Safety health and environmental regulations/legislation specific for the substance or mixture

#### **National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

## SARASection 313 (specific toxic chemical listings)

7647-01-0 Hydrochloric acid

## **California Proposition 65**

Prop 65 – Chemicals known to cause cancer

None of the ingredients are listed.

## Prop 65 – Developmental toxicity

None of the ingredients are listed.

#### Prop 65 – Developmental toxicity, female

None of the ingredients are listed.

## Prop 65 – Developmental toxicity, male

None of the ingredients are listed.

#### Information about limitation of use:

For use only by technically qualified individuals.

This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

#### Other regulations, limitations and prohibitive regulations

## Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

None of the ingredients are listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

None of the ingredients are listed.

#### Annex XIV of the REACH Regulations (requiring Authorisation for use)

None of the ingredients are listed.

#### REACH – Pre-registered substances

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## **16. OTHER INFORMATION**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

## **Department issuing SDS:** Global Marketing Department **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DOT: US Department of Transportation

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA)

OSHA: Occupational Safety and Health Administration (USA)

NTP: National Toxicology Program (USA)

IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA).