

## SAFETY DATA SHEET

Preparation Date: 2/1/2017

Revision Date: 2/1/2017

Revision Number: G1

### 1. IDENTIFICATION

**Product identifier**

**Product code:** CA101  
**Product Name:** CACODYLIC ACID SODIUM SALT, TRIHYDRATE

**Other means of identification**

**Synonyms:** Dimethylarsenic acid sodium salt trihydrate  
 Dimethylarsinic acid sodium salt trihydrate  
 Hydroxydimethylarsine oxide sodium salt trihydrate  
 Sodium dimethylarsinic acid trihydrate  
 Sodium Cacodylate trihydrate

**CAS #:** 6131-99-3  
**RTECS #** CH7890000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000.

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:** Martin LaBenz (West Coast)

**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

**Label elements**

**Danger**

**Hazard statements**

Toxic if swallowed

Toxic if inhaled  
May cause cancer  
May cause damage to organs through prolonged or repeated exposure



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Very toxic to aquatic life with long lasting effects  
Very toxic to aquatic life

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Cacodylic Acid Sodium Salt, trihydrate	6131-99-3	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**Skin Contact:**

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:**

Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

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persist, call a physician.

**Inhalation:** Toxic by inhalation. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

**Ingestion:** Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May affect the liver. It may affect the kidneys. Peripheral neuropathy. Paresthesia (numbness and tingling of the extremities). May affect the cardiovascular system. Weak, rapid pulse or rapid heart rate (Tachycardia). Cardiac arrhythmias. Mee's lines (transverse white lines) in the nails may be seen after acute or chronic exposure. Garlic odor of breath, sweat and urine. Dehydration. Thirst. Causes digestive (gastrointestinal) tract irritation. May cause abdominal pain, nausea, vomiting, diarrhea. May cause anorexia. May cause difficulty swallowing. Central nervous system depression. Headache. Convulsions. Coma. May cause muscle weakness. Perforation of the nasal septum if inhaled in excessive quantities. Skin lesions, thickened skin and/or patchy areas of darkening and loss of pigment. May affect eyes/vision. Laryngitis. Hoarseness of the voice. May affect the bone marrow. It may affect the blood.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon Dioxide, Carbon Monoxide. Arsenic. arsenic oxides. Sodium Oxides.

**Specific hazards:** May be combustible at high temperatures.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid breathing dust. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest. Do not smoke. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Hygroscopic. Protect from moisture. Store away from incompatible materials. Store in a segregated and approved area.

#### **Incompatible Materials:**

Strong oxidizing agents  
Strong bases  
Strong acids

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Cacodylic Acid Sodium Salt, trihydrate	6131-99-3	None	None	None	None

##### **Canada**

Components	CAS-No.	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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			<b>Columbia</b>		
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	None	None	None	None

### Australia and Mexico

Components	CAS-No.	<b>Australia</b>	<b>Mexico</b>
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:** Goggles

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state:

Solid

#### Appearance:

Crystals. Crystalline.

#### Color:

White.

#### Odor:

Slight.

#### Taste

No information available.

#### Formula:

C<sub>2</sub>H<sub>6</sub>AsO<sub>2</sub>Na.3H<sub>2</sub>O

#### Molecular/Formula weight:

214.03

#### Flammability:

No information available

#### Flashpoint (°C/°F):

No information available.

#### Flash Point Tested according to:

Not available

#### Autoignition Temperature (°C/°F):

No information available

#### Lower Explosion Limit (%):

No information available

#### Upper Explosion Limit (%):

No information available

#### Melting point/range(°C/°F):

60-80 °C/140-176 °F

#### Decomposition temperature(°C/°F):

No information available

#### Boiling point/range(°C/°F):

No information available

#### Bulk density:

No information available

#### Density (g/cm<sup>3</sup>):

No information available

#### Specific gravity:

No information available

#### pH:

No information available

#### Vapor pressure @ 20°C (kPa):

No information available

#### Evaporation rate:

No information available

#### Vapor density:

No information available

#### VOC content (g/L):

No information available

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**Odor threshold (ppm):**  
No information available

**Partition coefficient  
(n-octanol/water):**  
No information available

**Viscosity:**  
No information available

**Miscibility:**  
No information available

**Solubility:**  
Easily soluble in water  
Solubility in Water: 200 g/100 ml water  
@ 15-20 deg. C  
Soluble in Alcohol  
Solubility in Alcohol: 40 g/100 ml of  
Alcohol @ 25 deg. C

## 10. STABILITY AND REACTIVITY

**Reactivity**  
No information available

### Chemical stability

**Stability:** Hygroscopic. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Exposure to moisture. Exposure to moist air. Incompatible materials.

**Incompatible Materials:**  
Strong oxidizing agents  
Strong bases  
Strong acids

**Hazardous decomposition products:** Carbon oxides. When heated to decomposition it emits toxic fumes. Arsenic. Arsenic oxides. Sodium oxides.

**Other Information**  
**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Skin. Ingestion. Inhalation.

### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document  
**Component Information**

Cacodylic Acid Sodium Salt, trihydrate	
CAS-No.	6131-99-3

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = 2 mg/kg Oral LD50  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available

Other LD50 or LC50 information = No information available

#### Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = 2 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

#### Symptoms

**Skin Contact:** May cause skin irritation. If absorbed through skin it may cause systemic effects.

**Eye Contact:** May cause eye irritation.

**Inhalation** Toxic by inhalation. Inhaling Sodium Cacodylate can irritate the nose and throat and can cause an ulcer or hole in the nasal septum. May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea.

**Ingestion** Toxic if swallowed. Causes digestive (gastrointestinal) tract irritation. May cause loss of appetite. Ingestion may cause nausea, vomiting, diarrhea. Diarrhea may be watery or bloody. May cause garlicky odor of breath or sweat. May cause thirst and a metallic taste. May cause dehydration. May cause difficulty swallowing. May cause electrolyte imbalance. May affect the cardiovascular system (tachycardia). May affect the cardiovascular system (cardiac arrhythmias). May cause headache. It may cause central nervous system depression. May affect behavior/central nervous system (convulsions). Ingestion of large amounts may affect behavior/central nervous system (coma). It may affect the bone marrow (bone marrow depression). It may affect the kidneys and liver. May cause cyanosis. May affect cardiovascular system (weak pulse, change in heart rate). May cause muscle weakness. May cause muscle cramps.

**Aspiration hazard** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** Chronic exposure to arsenic or arsenic compounds by dermal contact can cause dermatitis or painful ulceration of the skin, lips. The wrists, as are the genitalia (if personal hygiene is poor) are common sites. It can also cause hyperkeratosis (thickening of the skin), depigmentation (patchy areas of darkening and loss of pigment) and some persons may develop Mees' lines (white lines on the nails). Chronic exposure to arsenic or arsenic compounds by inhalation may cause

irritation and conjunctivitis of the eyes, lacrimation hoarseness of the voice, laryngitis, irritation of the lips, nasal irritation (irritation of the nostrils), mucous membrane irritation, possible perforation of the nasal septum, and other symptoms similar to chronic ingestion. Chronic inhalation of arsenic and arsenic compounds is the most common cause of occupational poisoning. Chronic ingestion of arsenic or arsenic compounds can cause nausea, vomiting, anorexia, a garlic-like odor of the breath, and sweat and may affect the kidneys (renal tubular disorder/necrosis, anuria, hematuria, proteinuria, renal failure), liver (hepatomegaly, jaundice). It may also affect the blood/bone marrow (pancytopenia, isolated leukopenia, aplastic anemia, acute myelogenous leukemia), and cause alopecia (hair loss), dermatitis, skin disorders such as melanosis, depigmentation, keratosis, hyperkeratosis, Mees' lines and dimness of vision, double vision, and hyperglycemia. Prolonged or repeated inhalation or ingestion may affect the peripheral nervous system (weakness, paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)).

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** May cause cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	Group 1 - Known Human Carcinogen (arsenic and arsenic compounds)	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Target Organs:** Kidneys. Liver. Skin. Peripheral nervous system.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Cacodylic Acid Sodium Salt, trihydrate	6131-99-3	None	None	None	None

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN1688  
**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Subsidiary Class:** No information available  
**Packing group:** II  
**Emergency Response Guide Number:** 152  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** IB8, IP2, IP4, T3, TP33  
**Symbol(s):** No information available  
**Description:** UN1688, Sodium cacodylate, 6.1, II

#### TDG (Canada)

**UN-No:** UN1688  
**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant:** No Information available  
**Description:** UN1688, Sodium cacodylate, 6.1, II

#### ADR

**UN-No:** UN1688  
**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Packing Group:** II  
**Subsidiary Risk:** No information available  
**Description:** UN1688, Sodium cacodylate, 6.1, II

#### IMO / IMDG

**UN-No:** UN1688

**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant:** No information available  
**EMS:** F-A  
**Description:** UN1688, Sodium cacodylate, 6.1, II

**RID**

**UN-No:** UN1688  
**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1688, Sodium cacodylate, 6.1, II

**ICAO**

**UN-No:** UN1688  
**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN1688, Sodium cacodylate, 6.1, II

**IATA**

**UN-No:** UN1688  
**Proper Shipping Name:** Sodium cacodylate  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG Code:** 6L  
**Special Provisions:** No information available  
**Description:** UN1688, Sodium cacodylate, 6.1, II

**15. REGULATORY INFORMATION**

**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Cacodylic Acid Sodium Salt. trihydrate</i>	6131-99-3	Not Listed	Not present	Present	Not present	Present	Not present	Not present

**U.S. Regulations**

*Cacodylic Acid Sodium Salt. trihydrate*

- New Jersey RTK Hazardous Substance List:** sn 2138 (for arsenic compounds)
- New Jersey (EHS) List:** SN 2138 500 lb. TPQ (for arsenic compounds)
- New Jersey - Discharge Prevention - List of Hazardous Substances:** Present (arsenic compounds)
- Pennsylvania RTK:** Present (arsenic compounds)
- Pennsylvania RTK - Environmental Hazard List:** Present (arsenic compounds)
- Minnesota - Hazardous Substance List:** Present (arsenic organic compounds)
- California Directors List of Hazardous Substances:** Present (arsenic compounds)

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

**Product code:** CA101

**Product name:** CACODYLIC ACID  
SODIUM SALT, TRIHYDRATE

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Cacodylic Acid Sodium Salt. trihydrate</i>	6131-99-3	None	None	None	Arsenic compounds	1.0%

#### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	Not Applicable	Not Applicable

#### Canada

#### WHMIS hazard class:

D1B Toxic materials  
D2A Very toxic materials

#### Canada Controlled Products Regulation:

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

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Cacodylic Acid Sodium Salt. trihydrate	6131-99-3	Not listed

#### EU Classification

##### **R-phrase(s)**

R50 - Very toxic to aquatic organisms.  
R53 - May cause long-term adverse effects in the aquatic environment.  
R23/25 - Toxic by inhalation and if swallowed.

##### **S -phrase(s)**

S28 - After contact with skin, wash immediately with plenty of water  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S60 - This material and its container must be disposed of as hazardous waste.  
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.  
S20/21 - When using, do not eat, drink or smoke.

Components	CAS-No.	Classification	Concentration	Safety Phrases
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Product code: CA101

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SODIUM SALT, TRIHYDRATE

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			<b>Limits:</b>	
Cacodylic Acid Sodium Salt, trihydrate	6131-99-3		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

T - Toxic

T



N



## 16. OTHER INFORMATION

Preparation Date: 2/1/2017  
Revision Date: 2/1/2017  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**