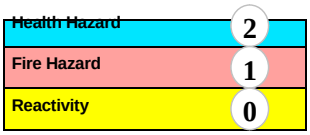
GARDENA, CA
NEW BRUNSWICK, NJ

Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
		 See Section 15.

Section 1. Chemical Product and Company Identification

Common Name/ Trade Name	**Cacodylic acid, sodium salt, trihydrate**
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248
Commercial Name(s)	Not available.
Synonym	Dimethylarsenic acid sodium salt trihydrate Dimethylarsinic acid sodium salt trihydrate Hydroxydimethylarsine oxide sodium salt trihydrate Sodium dimethylarsinic acid trihydrate
Chemical Name	Arsine oxide, hydroxydimethyl-, sodium salt, trihydrate
Chemical Family	Not available.
Chemical Formula	(CH3)2AsO2Na.3H2O or C2-H6-As-O2-Na.3H2O
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248

Catalog Number(s).	CA101
CAS#	6131-99-3 (anhydrous CAS no. 124-65-2)
RTECS	CH7890000
TSCA	TSCA 8(b) inventory: No products were found. This chemical is expempt from TSCA 8(b) Inventory listing since it is a hydrate. However, the anhydrous form CAS no. 124-65-2) is listed on the TSCA 8(b) Inventory.
CI#	Not available.

IN CASE OF EMERGENCY
CHEMTREC (24hr) 800-424-9300

CALL (310) 516-8000

Section 2.Composition and Information on Ingredients

		Exposure Limits			
Name	**CAS #**	**TWA (mg/m³)**	**STEL (mg/m³)**	**CEIL (mg/m³)**	**% by Weight**
1) Cacodylic acid, sodium salt	6131-99-3				100

Toxicological Data on Ingredients

Cacodylic acid, sodium salt
LD50: Not available.
LC50: Not available.

Continued on Next Page

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of inhalation. Severe over-exposure can result in death.
Potential Chronic Health Effects	**CARCINOGENIC EFFECTS**: Classified 1 (Proven for human.) by IARC (listed as Arsenic compounds) **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. **DEVELOPMENTAL TOXICITY**: Not available. The substance may be toxic to blood, kidneys, heart, brain, peripheral nervous system, gastrointestinal tract, skin, bone marrow. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2). Some metallic oxides.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	When heated to decomposition it emits toxic fumes of arsenic & sodium oxide
Special Remarks on Explosion Hazards	Not available.

Continued on Next Page

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill	Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Section 7. Handling and Storage

Precautions	Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic

Section 8. Exposure Controls/Personal Protection

Engineering Controls	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.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 0.5 (mg(As)/m^3) (as Arsenic) from OSHA (PEL) [United States] TWA: 0.5 STEL: 0.5 (mg/(As)m^3) (as Arsenic) [Canada] Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystalline solid. Crystals solid.)	**Odor**	Slight.
Molecular Weight	214.03 g/mole	**Taste**	Not available.
pH (1% soln/water)	Not available.	**Color**	White.

Boiling Point	Not available.
Melting Point	60℃ (140℉)
Critical Temperature	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not applicable.
Vapor Density	7.4 (Air = 1)
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coeff.	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in cold water. Solubility in Water: 200 g/100 mL water @ 15-20 deg. C. Solubility in alcohol: 40 g/100 ml alcohol @ 25 deg. C.;100 g/100 mL of 90% alcohol @ 15-20 deg. C.

Continued on Next Page

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials, moist air, water
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Loses water and becomes anhydrous at 120 deg. C. Deliquescent. Liquifies in its water of hydration at about 60 deg. C. Hygroscopic; keep container tightly closed.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	**CARCINOGENIC EFFECTS**: Classified 1 (Proven for human.) by IARC. May cause damage to the following organs: blood, kidneys, heart, brain, peripheral nervous system, gastrointestinal tract, skin, bone marrow.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic). Can cause cancer
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. It may be absorbed through the skin and cause system effects such as anorexia, nausea, abdominal pain, and elevated urinary arsenic levels. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract irritation with laryngitis. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Ingestion: Sodium Cacodylate is a pentavalent arsenic compound. Ingestion can gastrointestinal tract irritation with garlic-like odor on the breath, abdominal pain, dysphagia, nausea, vomiting, diarrhea (sometimes watery and bloody). Dehydration, intense thirst, muscle weakness, and fluid- elecrolyte disturbances may also occur. Mee's lines, transverse white lines in the nails may be seen, possibly taking up to 5 weeks to appear. It may affect urinary system (bladder, kidneys), liver, cardiovascular system (rapid pulse, cardiac arrhythmias), blood (hemolysis, pancytopenia, isolataed leukopenia, anemia), peripheral nervous system (peripheral neuropathy),and may cause shock and coma. Chronic Potential Health Effects: Chronic effects of arsenic poisoning can include hyperpigmentation of the skin (especially on the palms of the hands and soles of the feet), Black Foot disease (gangrene), anemia, pancytopenia, cirrhosis of the liver or enlarged liver, hair loss and nail changes. Skin: Prolonged or repeated skin contact may cause dermatitis.

Continued on Next Page

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification	CLASS 6.1: Poisonous material.
Identification	UNNA: 1688 : Sodium Cacodylate PG: II
Special Provisions for Transport	Not available.
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Connecticut hazardous material survey.: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
Pennsylvania RTK: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
Minnesota: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
Michigan critical material: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
New Jersey: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
New Jersey spill list: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
California Director's List of Hazardous Substances: Cacodylic acid, sodium salt (Listed as Arsenic compounds)
SARA 313 toxic chemical notification and release reporting: Cacodylic acid, sodium salt (listed as Arsenic compounds, organic)

California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances.
Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non- Domestic Substance List (NDSL).
China: Listed on National Inventory.
Japan: Not listed on National Inventory (ENCS).
Korea: Not listed on National Inventory (KECI).
Philippines: Listed on National Inventory (PICCS).
Australia: Not listed on AICS.

Other Classifications

WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC)

Continued on Next Page

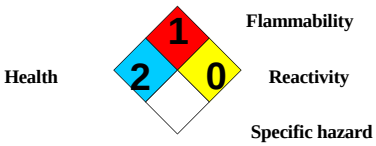
R23/25- Toxic by inhalation and if swallowed.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S20/21- When using do not eat, drink or smoke.
S28- After contact with skin, wash immediately with plenty of [***]
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.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	E

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



WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

TDG (Canada) (Pictograms)

ADR (Europe) (Pictograms)

Protective Equipment

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

Continued on Next Page

Section 16. Other Information

MSDS Code	**C3010**
References	Not available.
Other Special Considerations	Not available.

Validated by Sonia Owen on 11/11/2010.	**Verified by Sonia Owen.** **Printed 11/11/2010.**

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) 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 MSDS. 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 MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.