Printing date 03/04/2025 Reviewed on 03/04/2025

#### 1 Identification

· Product identifier

· Trade name: Cacodylic acid-Na-salt-3H<sub>2</sub>O

· Article number: 15540

• CAS Number: 6131-99-3 • EC number: 204-708-2

• Index number: 033-002-00-5

- · Application of the substance / the mixture: Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SERVA Electrophoresis GmbH

Carl-Benz-Str. 7 D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de

- · Information department: Security Department Phone: +49 6221 13840-35
- · Emergency telephone number:

Emergency medical information in case of poisoning Poison Information Center Mainz-Tel: +49 (0) 6131 19240

(Advice in German and English)

### 2 Hazard(s) identification

· Classification of the substance or mixture



Acute Toxicity - Oral 3 H301 Toxic if swallowed. Acute Toxicity - Inhalation 3 H331 Toxic if inhaled.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms: GHS06
- · Signal word: Danger
- · Hazard statements:

Toxic if swallowed or if inhaled.

· Precautionary statements

Avoid breathing dust.

Wash thoroughly after handling.

Avoid release to the environment.

If swallowed: Immediately call a poison center/doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store locked up.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 0Reactivity = 0

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# Safety Data Sheet acc. to OSHA HCS

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Trade name: Cacodylic acid-Na-salt-3H2O

· HMIS-ratings (scale 0 - 4)

HEALTH1Health = IFIRE0Fire = 0REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment:
- · PBT: PBT Assessment not available.
- · vPvB: vPvB Assessment not available.

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:

6131-99-3 sodium dimethylarsinate trihydrate

- · Identification number(s): · EC number: 204-708-2
- · Index number: 033-002-00-5
- · Description:
- · Empirical formula:  $C_2H_6$  As  $O_2Na*3H_2O$
- · MW: 214.0

### 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Provide fresh air. Consult a doctor immediately.
- · After skin contact:

Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor.

· After eve contact:

Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

· After swallowing:

Rinse out mouth. Call a doctor immediately.

Do not induce vomiting!

- · 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 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2 extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

In case of fire, development of toxic vapors and gases possible.

In case of fire, the following can be released:

Arsenic compounds

- · Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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(Contd. of page 2)

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Ensure adequate ventilation

Avoid formation of dust.

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up

Dispose contaminated material as waste according to section 13.

Pick up mechanically.

- · Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.
- · 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 disposal information.

#### 7 Handling and storage

· Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of dust.

· Information about protection against explosions and fires:

The product is not flammable.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions:

Store under lock and key and with access restricted to technical experts or their assistants only.

This product is hygroscopic.

Store container tightly closed and dry.

· Specific end use(s): No further relevant information available.

#### 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Additional information about design of technical systems: No further data; see section 7.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing.

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Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

· Breathing equipment:

Short term filter device:

Filter P3

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

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:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR

· Eye protection: Safety glasses

· Body protection: Protective work clothing

#### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information:

Color: White
Odor: Odorless
Odor threshold: not determined.

• Melting point/Melting range: 77-80 °C (170.6-176 °F)

· Boiling point/Boiling range: Undetermined.

· Flammability (solid, gaseous): Product is not flammable.

· Explosion limits:

Lower: No information available
 Upper: No information available

Flash point: Not applicable.
Decomposition temperature: >300 °C
pH-value: 8.7

· Viscosity:

Kinematic viscosity:
 Dynamic viscosity:
 No information available
 No information available

· Solubility in / Miscibility with:

• Water at 20 °C (68 °F): 880 g/l • Partition coefficient (n-octanol/water): <-1.54975

· Vapor pressure: No information available

· Vapor pressure:

Density: No information available
Relative density: No information available

· Other information

· Appearance:

· Form: Crystalline

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(Contd. of page 4)

 Important information on protection of health and environment, and on safety:

• Danger of explosion: Product does not present an explosion hazard.

· Molecular weight 214 g/mol

### 10 Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability:
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: Reacts with reducing agents.
- · Conditions to avoid: Humidity
- · Incompatible materials:

Avoid contact with:

Heavy metal salts

Reducing agents

Slightly corrosive effect on steel

· Hazardous decomposition products: In case of fire: see section 5

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Toxic if swallowed or if inhaled.

· LD/LC50 1	values that	are relevant for classification:
0 1	1.050	2 000 // ( )

Oral	LD50	2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative		>5.12 mg/l (rat)
	LC50/96h	>152 mg/l (fish)

- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

#### 12 Ecological information

- · Toxicity:
- · Aquatic toxicity:

ErC50 (Lemna gibba, 14 days): 33.1 mg/l

EC50/48h >61.6 mg/l (Daphnia magna)

- · Persistence and degradability: No further relevant information available.
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects:
- · Additional ecological information:
- · General notes:

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

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### Safety Data Sheet acc. to OSHA HCS

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Trade name: Cacodylic acid-Na-salt-3H<sub>2</sub>O

Water hazard class 3 (Self-assessment): extremely hazardous for water

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Dispose of in accordance with official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1688
· UN proper shipping name · DOT · ADR · IMDG, IATA	Sodium cacodylate 1688 SODIUM CACODYLATE, ENVIRONMENTALLY HAZARDOUS SODIUM CACODYLATE
· Transport hazard class(es)	
· DOT	
TOXIC	
· Class	6.1 Toxic substances
· Label · ADR, IMDG	6.1
· Class: · Label:	6.1 Toxic substances 6.1
· IATA	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards	Environmentally hazardous substance, solid; Marine Pollutant
· Marine pollutant:	Symbol (fish and tree)
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	(Contd. of page
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
· Hazard identification number (Kemler code	): 60
· EMS Number:	F- $A$ , $S$ - $A$
· Stowage Category	A
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 500 g
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 500 g
· UN ''Model Regulation'':	UN 1688 SODIUM CACODYLATE, 6.1, I
-	ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Section 355 (extremely hazardous substances): Substance is listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS06
- · Signal word Danger
- · Hazard statements

Toxic if swallowed or if inhaled.

· Precautionary statements

Avoid breathing dust.

Wash thoroughly after handling.

Avoid release to the environment.

If swallowed: Immediately call a poison center/doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store locked up.

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

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- · Contact: +49 6221 13840-35
- · Date of preparation / last revision 03/04/2025 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

bw: body weight

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

 $vPvB:\ very\ Persistent\ and\ very\ Bioaccumulative$ 

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

 $A cute\ Toxicity-Oral\ 3:\ A cute\ toxicity-Category\ 3$ 

-US