

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: (2N5) 99.5% Sodium Hydrogen Arsenate Heptahydrate

Product Code: NA-HASO-025-C.7HYD

CAS Number: 10048-95-0

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Carcinogenicity (Category 1B), H350 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

2.2 GHS Label elements, including precautionary statements Pictogram



Signal word Danger Hazard statement(s) H301 + H331 Toxic if swallowed or if inhaled H350 May cause cancer. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s) P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P321 Specific treatment (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Synonyms : Sodium hydrogenarsenate heptahydrate Disodium hydrogen arsenate heptahydrate Formula : HAsNa2O4 7H2O Molecular weight : 312.01 g/mol CAS-No. : 10048-95-0 Index-No. : 033-005-00-1 Hazardous components Component Classification Concentration Sodium arsenate dibasic heptahydrate Acute Tox. 3; Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H301 + H331, H350, H410 <= 100 %

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Sodium oxides, Arsenic oxides
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing Vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment

must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for

disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Components with workplace control parameters Component CAS-No. Value Control parameters Basis Sodium arsenate dibasic heptahydrate 10048-95-0 TWA 0.010000 ma/m3 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants Remarks Substance listed; for more information see OSHA document 1910.1018 TWA 0.010000 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Lung cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed human carcinogen varies PEL 0.010000 ma/m3 **OSHA Specifically Regulated** Chemicals/Carcinogens 1910.1018 This section applies to all occupational exposures to inorganic arsenic except that this section does not apply to employee exposures in agriculture or resulting from pesticide application, the treatment of wood with preservatives or the utilization of arsenically preserved wood. OSHA specifically regulated carcinogen C 0.002000 mg/m3 USA. NIOSH Recommended **Exposure Limits** Potential Occupational Carcinogen OSHA considers 'Inorganic Arsenic' to mean copper acetoarsenite & all inorganic compounds containing arsenic except ARSINE. See Appendix A 15 minute ceiling value Substance listed; for more information see OSHA document 1910.1018 TWA 0.01 mg/m3 USA. ACGIH Threshold Limit Values (TLV) Lung cancer Substances for which there is a Biological Exposure Index or Indices

(see BEI® section) Confirmed human carcinogen varies PEL 0.01 mg/m3 OSHA Specifically Regulated Chemicals/Carcinogens 1910.1018 This section applies to all occupational exposures to inorganic arsenic except that this section does not apply to employee exposures in agriculture or resulting from pesticide application, the treatment of wood with preservatives or the utilization of arsenically preserved wood. OSHA specifically regulated carcinogen C 0.002 mg/m3 USA. NIOSH Recommended Exposure Limits Potential Occupational Carcinogen OSHA considers 'Inorganic Arsenic' to mean copper acetoarsenite & all inorganic compounds containing arsenic except ARSINE. See Appendix A 15 minute ceiling value **Biological occupational exposure limits** Component CAS-No. Parameters Value Biological specimen Basis Sodium arsenate dibasic heptahydrate 10048-95-0 inorganic arsenic plus methylated metabolites 35µg As/I Urine ACGIH - Biological **Exposure Indices** (BEI) Remarks End of the workweek (After four or five consecutive working days with exposure) 8.2 Exposure controls Appropriate engineering controls Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our

customers. It should not be construed as offering an approval for any specific use scenario. Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline

Colour: white

- b) Odor No data available
- c) Odor Threshold No data available
- d) pH 8.5 9.0 at 50 g/l at 25 °C (77 °F)
- e) Melting point/freezing point

Melting point/range: 180 °C (356 °F) - dec.

- f) Initial boiling point and boiling range No data available
- g) Flash point N/A
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapor pressure No data available
- I) Vapor density No data available
- m) Relative density 1.880 g/cm³
- n) Water solubility No data available
- o) Partition coefficient: noctanol/water No data available
- p) Auto-ignition temperature No data available
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available
- 9.2 Other safety information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 ReactivityNo data available10.2 Chemical stability

Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials Strong oxidizing agents, Strong acids 10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity No data available Inhalation: No data available Dermal: No data available LD50 Intramuscular - Mouse - 87.36 mg/kg LD50 Intramuscular - Mouse - 87.36 mg/kg Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity Laboratory experiments have shown mutagenic effects. Carcinogenicity This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogen IARC: 1 - Group 1: Carcinogenic to humans (Sodium arsenate dibasic heptahydrate) 1 - Group 1: Carcinogenic to humans (Sodium arsenate dibasic heptahydrate) NTP: Known to be human carcinogen (Sodium arsenate dibasic heptahydrate) Known to be human carcinogen (Sodium arsenate dibasic heptahydrate) OSHA: 1910.1018 (Sodium arsenate dibasic heptahydrate) OSHA specifically regulated carcinogen (Sodium arsenate dibasic heptahydrate) Reproductive toxicity No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: CG0900000 burning, dry nose, dry mouth, Muscle cramps/spasms., Nausea, Vomiting, Diarrhoea, Shock., death, May cause irritation of the:, Gastrointestinal tract

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste
disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a
chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US) UN number: 1685 Class: 6.1 Packing group: II Proper shipping name: Sodium arsenate Poison Inhalation Hazard: No IMDG UN number: 1685 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name: SODIUM ARSENATE Marine pollutant:yes IATA UN number: 1685 Class: 6.1 Packing group: II Proper shipping name: Sodium arsenate

SECTION 15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Sodium arsenate dibasic heptahydrate CAS-No. 10048-95-0 **Revision Date** 1987-01-01 SARA 311/312 Hazards Acute Health Hazard. Chronic Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Sodium arsenate dibasic heptahydrate CAS-No. 10048-95-0 **Revision Date** 1987-01-01 New Jersey Right To Know Components Sodium arsenate dibasic heptahydrate CAS-No. 10048-95-0 **Revision Date** 1987-01-01 California Prop. 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer. Sodium arsenate dibasic heptahydrate CAS-No. 10048-95-0 **Revision Date** 1987-02-27

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.