SODIUM ARSENATE HEPTAHYDRATE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Sodium arsenate heptahydrate
Product Code: 3424
CAS#: 10048-95-0
Synonym: di-Sodium hydrogen arsenate heptahydrate
Chemical Name: Not available
Chemical Formula: $HAsNa_2O_4 \cdot 7H_2O$
Formula Weight: 312.01

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: Sodium arsenate heptahydrate

Toxicological Data on Ingredients: Acute Tox. 3; Carc. 1A;
Aquatic Acute 1; Aquatic
Chronic 1; H301, H331,
H350, H400, H410

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Carcinogenicity (Category 1A), H350
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

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. Get medical attention if irritation occurs.
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact: Not available.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation: Not available.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Sodium oxides
Arsenic oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Use a shovel to put the material into a convenient waste disposal container

SECTION 7: HANDLING AND STORAGE

Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

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: Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

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: Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: Crystalline
Odour	: Not available
Taste	: Not available
Molecular Weight	: Not available
Colour	: White
pH	: Not available
Boiling Point	: Not available
Melting Point	: Melting point/range: 180 °C
Critical Temperature	: Not available

Specific Density	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Not Available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity
No data available
Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions
No data available
Conditions to avoid
no information available
Incompatible materials
Strong acids

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - Rat - 100 mg/kg
Remarks: (Lit.)
LC50 Inhalation - Rat - 4 h - 0,501 mg/l - dust/mist
Remarks: (Lit.)
Dermal: No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
May cause cancer. Positive evidence from human epidemiological studies.
Reproductive toxicity
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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
No data available

Persistence and degradability
Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable.
Remarks: No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

UN number:
ADR/RID: 1685 **IMDG: 1685** **IATA: 1685**
UN proper shipping name
ADR/RID: SODIUM ARSENATE
IMDG: SODIUM ARSENATE
IATA: SODIUM ARSENATE
Transport hazard class (es):
ADR/RID: 6.1 **IMDG: 6.1** **IATA: 6.1**
Packaging group:
ADR/RID: II **IMDG:** II **IATA: II**
Environmental hazards:
ADR/RID: Yes **IMDG Marine pollutant:** Yes **IATA: No**

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Authorisations and/or restrictions on use
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. : Disodium arsenate heptahydrate
Other regulations
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

SECTION 16: OTHER INFORMATION

References: Full Text of H & R Statements:
H301 Toxic if swallowed.
H301 + H331 Toxic if swallowed or if inhaled.

H331 Toxic if inhaled.
H350 May cause cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Other Special Considerations: Not available.

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