

[Sodium \(meta\)arsenite](#)

[Sodium Arsenite](#)

Linear Formula	NaAsO ₂
Pubchem CID	443495
MDL Number	MFC00003472
EC No.	232-070-5
IUPAC Name	sodium; oxoarsinite
Beilstein/Reaxys No.	N/A
SMILES	[Na+].[O-][As]=O
Inchl Identifier	InChI=1S/AsHO2.Na/c2-1-3;/h(H,2,3);/q;+1/p-1
Inchl Key	PTLRDCMBXHILCL-UHFFFAOYSA-M
Signal Word	Danger
Hazard Statements	H300 + H310-H331-H350-H410
Hazard Codes	T,N
Risk Codes	45-23/24/25-50/53
Safety Statements	53-20/21-28-36/37-45-60-61
RTECS Number	N/A
Transport Information	UN 2027 6.1/PG 2
WGK Germany	3

GHS
Pictograms

[GHS06 Skull and
Crossbones](#)



[GHS08 Health
Hazard](#)



[GHS09
Environment](#)



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SAFETY DATA SHEET

Date Accessed: 10/31/2020

Date Revised: 05/15/2015

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #7784-46-5

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:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral(Category 2), H300
Acute toxicity, Inhalation(Category 3), H331
Acute toxicity, Dermal(Category 2), H310
Carcinogenicity(Category 1A), H350
Acute aquatic toxicity(Category 1), H400

Chronic aquatic toxicity(Category 1), H410
GHS Label elements, including precautionary
statements
Pictogram



Signal word

Danger

Hazard statement(s)

H300 + H310

Fatal if swallowed or in contact with skin

H331

Toxic 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.

P262

Do not get in eyes, on skin, or on clothing.

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.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P310 + P330

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.

P302 + P350 + P310

IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.

P304 + P340 + P311

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

P362

Take off contaminated clothing and wash before reuse.
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.
Hazards not otherwise classified (HNOC) or not covered by GHS-none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Synonyms: Sodium dioxoarsenate
Formula: AsNaO_2
Molecular weight: 129.91 g/mol
CAS-No.: 7784-46-5
EC-No.: 232-070-5

SECTION 4. FIRST AID MEASURES

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.
Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.

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.

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.

Reference to other sections

For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

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.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-

ventilated place.

Air sensitive.

Store under inert gas.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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

Information on basic physical and chemical properties

Appearance

Form: solid

Odor

No data available

Odor Threshold

No data available

pH

No data available

Melting point/freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

N/A

Evaporation rate

No data available

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

No data available

Vapor pressure

No data available

Vapor density

No data available

Relative density

1.870 g/cm³

Water solubility

No data available

Partition coefficient: n-octanol/water

No data available

Auto-ignition temperature

No data available

Decomposition temperature

No data available

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

Other safety information

No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available
Conditions to avoid
Avoid moisture.
Incompatible materials
Strong oxidizing agents, Strong acids
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions.-
Sodium oxides, Arsenic oxides
Other decomposition products-
No data available
In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity
LD50 Oral-Rat-41 mg/kg
Inhalation: No data available
LD50 Dermal-Rat-150 mg/kg
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
Human carcinogen.
IARC:
1-Group 1: Carcinogenic to humans(Sodium dioxoarsenate)
IARC:
1-Group 1: Carcinogenic to humans(Sodium dioxoarsenate)
NTP:
Known to be human carcinogen(Sodium dioxoarsenate)
NTP:
Known to be human carcinogen(Sodium dioxoarsenate)
OSHA:
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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: Not available
Exposure to arsenic compounds can cause:
Gastrointestinal disturbance, Cardiovascular effects.,
Neurological disorders

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Toxicity to daphnia and other aquatic invertebrates
EC50-Daphnia magna (Water flea)-1.54 mg/l-48 h
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical
safety assessment not required/not conducted
Other adverse effects
Very toxic to aquatic life with long lasting effects.
An environmental hazard cannot be excluded in the
event of unprofessional handling or disposal.

SECTION 13. DISPOSAL CONSIDERATIONS

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: 2027
Class: 6.1
Packing group: II
Proper shipping name: Sodium arsenite, solid
Reportable Quantity(RQ): 1 lbs
Poison Inhalation Hazard: No
IMDG
UN number: 2027
Class: 6.1
Packing group: II
EMS-No: F-A, S-A
Proper shipping name: SODIUM ARSENITE, SOLID
Marine pollutant: yes
IATA
UN number: 2027
Class: 6.1
Packing group: II
Proper shipping name: Sodium arsenite, solid

SECTION 15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-07-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-07-01

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-07-01

Pennsylvania Right To Know Components

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-07-01

New Jersey Right To Know Components

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-09-28

WARNING! This product contains a chemical known to the State of California to cause cancer.

Sodium dioxoarsenate

CAS-No.

7784-46-5

Revision Date

2007-09-28

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 1997-2016 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.