



Material Safety Data Sheet

Sodium arsenite, powder, certified

MSDS# 21360

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium arsenite, powder, certified

Catalog Numbers: S225I-100, S225I-500

Synonyms: Arsenenous acid, sodium salt; Sodium metaarsenite; Sodium arsenite; Sodium dioxoarsenate.

Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 201-796-7100

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 7784-46-5
Chemical Name: Sodium arsenite
%: 100
EINECS#: 232-070-5

Hazard Symbols:

T N



Risk Phrases:

45 23/25 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! May be fatal if swallowed. Harmful if inhaled. May be fatal if absorbed through the skin. Cancer hazard. Contains inorganic arsenic. Causes eye, skin, and respiratory tract irritation. Target Organs: Lungs, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be fatal if absorbed through the skin. Exposure to arsenic compounds may produce hyperpigmentation of the skin and hyperkeratoses of plantar and palmar surfaces as well as both primary irritation and sensitization types.

Ingestion: May be fatal if swallowed. Poison by ingestion. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. All soluble arsenic (As) compounds are considered to be poisonous to humans. Inorganic arsenic is more toxic than organic arsenic. Organic arsenic is excreted more rapidly than inorganic arsenic. Arsenic 5+ is excreted more rapidly than arsenic 3+.

Inhalation: Causes respiratory tract irritation. Inhalation of arsenic compounds may lead to irritation of the respiratory tract and to possible nasal perforation. Long-term exposure to arsenic compounds may produce impairment of peripheral circulation.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Inorganic arsenic compounds may cause skin and lung cancers in humans.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

Ingestion: Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media: Use agent most appropriate to extinguish fire.

Autoignition Temperature: Not available.

Flash Point: Not applicable.

Explosion Limits: Lower: N/A

Explosion Limits: Upper: N/A

NFPA Rating: health: 3; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Evacuate unnecessary personnel. U.S. regulations require reporting spills and releases to soil, water and air in excess of reportable quantities. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Use only with adequate ventilation or respiratory protection. Change contaminated clothing promptly. Do not take working clothes home.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium arsenite	0.01 mg/m3 TWA (as As) (listed under Arsenic, inorganic compounds).	5 mg/m3 IDLH (as As) (listed under Arsenic, inorganic compounds).	10 æg/m3 TWA (as As) (listed under Arsenic, inorganic compounds).5 æg/m3 Action Level (as As); 10 æg/m3 TWA (as As, Cancer hazard - see 29 CFR 19 10.1018, except Arsine) (listed under Arsenic,

OSHA Vacated PELs: Sodium arsenite: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use

adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. See 29CFR 1910.1018 for regulatory requirements pertaining to all occupational exposures to inorganic arsenic.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white to gray white

Odor: odorless

pH: basic in solution

Vapor Pressure: Not applicable.

Vapor Density: Not applicable.

Evaporation Rate: Not applicable.

Viscosity: Not applicable.

Boiling Point: Decomposes

Freezing/Melting Point: 615 deg C (1,139.00°F)

Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density: 1.87

Molecular Formula: NaAsO₂

Molecular Weight: 129.91

Section 10 - Stability and Reactivity

Chemical Stability: Stable. Absorbs carbon dioxide from the air.

Conditions to Avoid: Moisture, extreme temperatures.

Incompatibilities with Other Materials: Strong acids.

Hazardous Decomposition Products: Oxides of arsenic.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7784-46-5: CG3675000

RTECS:

LD50/LC50: CAS# 7784-46-5: Oral, rat: LD50 = 41 mg/kg;
Skin, rat: LD50 = 150 mg/kg;

Carcinogenicity: Sodium arsenite - California: carcinogen, initial date 2/27/87 (Arsenic, inorganic compounds). NTP: Known carcinogen (Arsenic, inorganic compounds). IARC: Group 1 carcinogen

Other: The hazards associated with arsenic may be seen in this product.

Section 12 - Ecological Information

Ecotoxicity: Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: SODIUM ARSENITE, SOLID

Hazard Class: 6.1
UN Number: UN2027
Packing Group: II
Canada TDG
Shipping Name: SODIUM ARSENITE, SOLID
Hazard Class: 6.1
UN Number: UN2027
Packing Group: II

USA RQ: CAS# 7784-46-5: 1 lb final RQ; 0.454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 45 May cause cancer.

R 23/25 Toxic by inhalation and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 20/21 When using do not eat, drink or smoke.

S 28 After contact with skin, wash immediately with...

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 7784-46-5: 3

Canada

CAS# 7784-46-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1A, D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7784-46-5 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7784-46-5 is listed on the TSCA Inventory.

REVIEWED

Section 16 - Other Information

MSDS Creation Date: 8/05/1998

Revision #10 Date 7/20/2009

DATE: June 11/2012
Rutherford

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