



J.T. Baker  
A Division of Mallinckrodt Baker, Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865  
24 Hour Emergency Telephone 908-859-2151  
National Response Center 800-424-8802  
Chemtrec 800-424-9300

National Response in Canada  
CANUTEC 613-996-6666  
Outside U.S. and Canada  
Chemtrec 202-483-7616

**MATERIAL SAFETY DATA SHEET**

FICHE  
SIGNALÉTIQUE

HOJAS DE DATOS  
DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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Sodium meta-Arsenite

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Mallinckrodt Baker, Inc., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Product Name: Sodium meta-Arsenite  
Common Synonyms: Sodium Metaarsenite; Arsenious Acid, Sodium Salt  
Chemical Family: Arsenic Compounds  
Formula: NaAsO<sub>2</sub>  
Formula Wt.: 129.91  
CAS No.: 7784-46-5  
NIOSH/RTECS No.: CG3675000  
Product Use: Laboratory Reagent  
Product Codes: 3487

PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* System

HEALTH *4 CANCER EXTREME	FLAMMABILITY 0 NONE	REACTIVITY 1 SLIGHT	CONTACT 1 SLIGHT
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Laboratory Protective Equipment



U.S. Precautionary Labeling

**POISON! — DANGER!**

CAUTION: CONTAINS INORGANIC ARSENIC, CANCER HAZARD. MAY BE FATAL IF SWALLOWED OR INHALED. MAY CAUSE IRRITATION.

Do not get in eyes, on skin, on clothing. Do not breathe dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

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===== PRECAUTIONARY LABELING (CONTINUED) =====

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA\* Storage Color Code: Blue (health)

===== SECTION II - COMPONENTS =====

Component	CAS No.	Weight %	OSHA/PEL	ACGIH/TLV
Sodium Arsenite	7784-46-5	98-100	0.5 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>

===== SECTION III - PHYSICAL DATA =====

Boiling Point: N/A

Vapor Pressure (mmHg): N/A

Melting Point: 615°C (1139°F)  
(at 760 mm Hg)

Vapor Density (air=1): N/A

Specific Gravity: 1.87  
(H<sub>2</sub>O=1)

Evaporation Rate: N/A

Solubility(H<sub>2</sub>O): Appreciable (>10%)

% Volatiles by Volume: 0  
(21°C)

pH: N/A

Odor Threshold (ppm): N/A

Physical State: Solid

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: White crystalline powder. Odorless.



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits: Upper - N/A Lower - N/A

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards

None identified.

Toxic Gases Produced

Arsenic fumes

Explosion Data-Sensitivity to Mechanical Impact

None identified.

Explosion Data-Sensitivity to Static Discharge

None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): 0.01 mg/m<sup>3</sup>

TLV is for Arsenic and soluble compounds, as As.

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): 0.5 mg/m<sup>3</sup>

PEL is for Arsenic and compounds, as As.

Toxicity of components

1 Rat LD<sub>50</sub> for Sodium Arsenite

41 mg/kg



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===== SECTION V - HEALTH HAZARD DATA (CONTINUED) =====

Skin Rat LD<sub>50</sub> for Sodium Arsenite 150 mg/kg  
Intraperitoneal Mouse LD<sub>50</sub> for Sodium Arsenite 19 mg/kg

~~Carcinogenicity: NTP: Yes IARC: Yes Z List: Yes OSHA Reg: Yes~~

~~Carcinogenicity  
This substance is listed as a NTP human carcinogen and an IARC human carcinogen (Group 1).~~

Reproductive Effects  
None identified.

Effects of Overexposure

~~INHALATION: irritation of upper respiratory tract, and may be fatal.~~

~~SKIN CONTACT: irritation, prolonged contact may cause dermatitis~~

~~EYE CONTACT: irritation~~

~~SKIN ABSORPTION: none identified~~

~~INGESTION: headache, nausea, vomiting, dizziness, gastrointestinal irritation, and may be fatal.~~

~~CHRONIC EFFECTS: damage to liver, kidneys, lungs~~

Target Organs

liver, kidneys, skin, respiratory system, lungs, lymphatic system

Medical Conditions Generally Aggravated by Exposure

none identified

Primary Routes of Entry

ingestion, inhalation, skin contact, eye contact

Emergency and First Aid Procedures

~~INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, give large amounts of water. Induce vomiting.~~

~~INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.~~



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SECTION V - HEALTH HAZARD DATA (CONTINUED)

~~SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.~~

~~EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.~~

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No  
Extremely Hazardous Substance: Yes Contains Sodium Arsenite (RQ = 1,000 LBS, TPQ = 500/10,000 LBS)  
RCRA Hazardous Substance: Yes Contains Sodium Arsenite (RQ = 1000 LBS)  
SARA 313 Toxic Chemicals: Yes Contains Arsenic  
Generic Class: Generic Class Removed from CFR: 7/1/91  
Inventory: Yes

Labels: For products sold in the state of California, the state requires that we provide to users and their employees the following message: WARNING: THIS PRODUCT IS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur

Conditions to Avoid: ~~moisture~~

Incompatibles: ~~strong oxidizing agents, carbon dioxide~~

Decomposition Products: arsenic fumes

SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.



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SECTION VII - SPILL & DISPOSAL PROCEDURES (CONTINUED)

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EPA Hazardous Waste Number: D004 (EP Toxic Waste)

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

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Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: ~~None required where adequate ventilation conditions exist. If airborne concentration exceeds TLV, a dust/mist respirator is recommended.~~ If concentration exceeds capacity of respirator, a self-contained breathing apparatus is advised.

Eye/Skin Protection: ~~Safety goggles, uniform, apron, rubber gloves are recommended.~~

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SECTION IX - STORAGE AND HANDLING PRECAUTIONS

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SAF-T-DATA\* Storage Color Code: Blue (health)

Storage Requirements

Keep container tightly closed. Store in secure poison area.

Special Precautions

Material is hygroscopic.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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Domestic (D.O.T.)

Proper Shipping Name: Sodium arsenite, solid

Hazard Class: 6.1

UN/NA: UN2027 Reportable Quantity: 1 LBS. Packaging Group: II

Labels: 6 POISON

Regulatory References: 49CFR 172.101; 173.365



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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)

International (I.M.O.)

Proper Shipping Name: Sodium arsenite, solid  
Hazard Class: 6.1  
UN: UN2027 Marine Pollutants: Yes  
Labels: 6 POISON  
Regulatory References: 49CFR PART 176; IMDG Code

I.M.O. Page: 6254  
Packaging Group: II

AIR (I.C.A.O.)

Proper Shipping Name: Sodium arsenite, solid  
Hazard Class: 6.1  
UN: UN2027  
Labels: 6 POISON  
Regulatory References: 49CFR PART 175; ICAO==

Packaging Group: II

We believe the transportation data and references contained herein to be factual and the opinion of qualified experts. The data is meant as a guide to the overall classification of the product and is not package size specific, nor should it be taken as a warranty or representation for which the company assumes legal responsibility.== The information is offered solely for your consideration, investigation, and verification. Any use of the information must be determined by the user to be in accordance with applicable Federal, State, and Local laws and regulations. See shipper requirements 49CFR 171.2, Certification 172.204, and employee training 49 CFR 173.1(b).

J.S. Customs Harmonization Number: 28429000009

NOTE: When handling liquid products, secondary protective containers must be used for carrying.

-N/A = Not Applicable, or not Available;

N/E = Not Established.-

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of material by a person trained in, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular



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application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.

BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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Approved by Quality Assurance Department.