

SAFETY DATA SHEET

1. Identification

Product identifier	Arsenic acid	
Other means of identification SDS number	A-MSDS0003	
Synonyms	ARSENIC ACID	
Manufacturer/Importer/Supplier/Dist Manufacturer	tributor information	
Company name	Materion Advanced Chemicals	Inc.
Address	407 N 13th Street	
	1316 W. St. Paul Avenue	
	Milwaukee, WI 53233	
	United States	
Telephone	414.212.0257	
E-mail	advancedmaterials@materion.com	
Contact person	Noreen Atkinson	
Emergency phone number	Chemtrec	800.424.9300
2. Hazard(s) identification		
Physical hazards	Not classified.	

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 2
	Acute toxicity, inhalation	Category 3
	Carcinogenicity	Category 1A
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger	
Hazard statement	Toxic if swallowed. Fatal if swallowed. May cause cancer. May cause cancer. Causes mild sk irritation. Causes serious eye irritation. Toxic if inhaled. Toxic if inhaled. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (). Causes dar to organs (respiratory system) through prolonged or repeated exposure. Very toxic to aquatic Toxic to aquatic life. Harmful to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid breathing dust/fume. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.	

Response	If swallowed: Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	The Safety Information Sheet Chemicals of hazardous chemical can be obtained through phone, email or on the company website.
Supplemental information	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
arsenic acid	ARSENIC ACID	7778-39-4	100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
Skin contact	Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Decrease in motor functions. Behavioral changes. Narcosis. Jaundice. Liver enlargement. Proteinuria. Irritation of eyes and mucous membranes. Skin irritation. Rash. Defatting of the skin. Edema. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. Water runoff can cause environmental damage.

Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release mease	ures
Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Avoid inhalation of dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Refer to special instructions/safety data sheets. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Avoid exposure - obtain special instructions before use. Do not breathe mist or vapor. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Avoid exposure - obtain special instructions before use. Store in a cool, dry place out of direct sunlight. Use appropriate container to avoid environmental contamination. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Material		Туре	Va	alue
arsenic acid (CAS 7778-39-4)		TWA	0.	01 mg/m3
US. NIOSH: Pocket Gu	uide to Chemical H	azards		
Material		Туре	Va	alue
arsenic acid (CAS 7778-39-4)		Ceiling	0.	002 mg/m3
logical limit values ACGIH Biological Expo Material	osure Indices Value	Determinant	Specimen	Sampling Time
	35 µg/l	Inorganic arsenic, plus	Urine	*

* - For sampling details, please see the source document.

Control parameters	Follow standard monitoring procedures.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Avoid exposure - obtain special instructions before use. Chemical respirator with organic vapor cartridge and full facepiece.		
Skin protection			
Hand protection	Avoid exposure - obtain special instructions before use. Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other	Avoid exposure - obtain special instructions before use. Wear chemical protective equipment that is specifically recommended by the manufacturer. Use of an impervious apron is recommended. It may provide little or no thermal protection.		
Respiratory protection	Avoid exposure - obtain special instructions before use. Chemical respirator with organic vapor cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

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Appearance	
Physical state	Solid, Liquid.
Form	Liquid.
Color	Not available.
Odor	Not applicable.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	95 °F (35 °C)
Initial boiling point and boiling range	Not applicable.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Not available.
Upper/lower flammability or explose	sive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Density	2.20 g/cm3 estimated
Explosive properties	Not explosive.
Molecular formula	As-H3-O4
Molecular weight	141.94 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	2.2

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Causes mild skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Fatal if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Behavioral changes. Decrease in motor functions. Narcosis. Irritant effects. Jaundice. Liver enlargement. Proteinuria. Skin irritation. Rash. Edema. Defatting of the skin.

Information on toxicological effects

Acute toxicity	Fatal if swallowed. Toxic if swallowed. Toxic if inhale	d.
Product	Species	Test Results
Arsenic acid (CAS 7778-39-4)		
Acute		
Oral		
LD50	Rat	48 - 100 mg/kg
* Estimates for product may I	be based on additional component data not shown.	
Skin corrosion/irritation	Causes mild skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Due to lack of data the classification is not possible.	
Skin sensitization	Due to lack of data the classification is not possible.	
Germ cell mutagenicity	Due to lack of data the classification is not possible.	
Carcinogenicity	Cancer hazard.	
IARC Monographs. Overall E	valuation of Carcinogenicity	

arsenic acid (CAS 7778-39-4)

1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens arsenic acid (CAS 7778-39-4)

Known To Be Human Carcinogen.

US. OSHA Specifically Regul	ated Substances (29 CFR 1910.1	001-1050)
arsenic acid (CAS 7778-	39-4)	Cancer
Reproductive toxicity	Suspected of damaging fertility	or the unborn child.
Specific target organ toxicity - single exposure	Causes damage to organs ().	
Specific target organ toxicity - repeated exposure	Causes damage to organs () th	rough prolonged or repeated exposure.
Aspiration hazard	Due to lack of data the classific	ation is not possible.
Chronic effects	Causes damage to organs thro harmful. Prolonged exposure m	ugh prolonged or repeated exposure. Prolonged inhalation may be nay cause chronic effects.

12. Ecological information

Ecotoxicity	Very toxic	to aquatic life with long lasting effects. Acc	umulation in aquatic organisms is expected.
Product Species Test Results		Test Results	
arsenic acid (CAS 7778-39	9-4)		
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	55.4 - 79.8 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. After recovery of solvent dispose of residue as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste P List: Reference

arsenic acid (CAS 7778-	39-4) P010
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	
UN number	UN1554
UN proper shipping name	Arsenic acid, solid, MARINE POLLUTANT
Transport hazard class(es)	
Class	6.1(PGI, II)

Material name: Arsenic acid

Subsidiary risk	
Label(s)	6.1
Packing group	II
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety
	instructions, SDS and emergency procedures before handling.
Special provisions	IB8, IP2, IP4, T3, TP33
Packaging exceptions	153
Packaging non bulk	212
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1554
UN proper shipping name	Arsenic acid, solid
Transport hazard class(es)	
Class	6.1(PGI, II)
Subsidiary risk	-
Packing group	ll
Environmental hazards	No.
ERG Code	6L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1554
UN proper shipping name	ARSENIC ACID, SOLID
Transport hazard class(es)	
Class	6.1(PGI, II)
Subsidiary risk	-
Packing group	ll
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-A
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
DOT	



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Marine pollutant





DOT Regulated Marine Pollutant.

15. Regulatory information

υs	federal	regulations	
00	Icuciai	regulations	

All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) arsenic acid (CAS 7778-39-4) Listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) arsenic acid (CAS 7778-39-4) Cancer Liver Skin Respiratory irritation Nervous system Acute toxicity Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical SARA 313 (TRI reporting) <u>Chemical name</u> CAS number % by wt. arsenic acid 7778-39-4 100 Cther federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	., .	lotification (40 CFR 707, Subpt	. D)	
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Other federal regulations	,		CAS number	% by wt.
-	arsenic acid		7778-39-4	100
-	Other federal regulations			
	•	112 Hazardous Air Pollutants (L	dADe) Liet	

arsenic acid (CAS 7778-39-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Clean Water Act (CWA) Priority pollutant Section 112(r) (40 CFR Toxic pollutant 68.130) Safe Drinking Water Act 0 mg/l (SDWA) 0.010 mg/l US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer. US - New Jersey RTK - Substances: Listed substance arsenic acid (CAS 7778-39-4) US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed. US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) arsenic acid (CAS 7778-39-4) US. Massachusetts RTK - Substance List arsenic acid (CAS 7778-39-4) US. New Jersey Worker and Community Right-to-Know Act arsenic acid (CAS 7778-39-4) US. Pennsylvania RTK - Hazardous Substances arsenic acid (CAS 7778-39-4) US. Pennsylvania Worker and Community Right-to-Know Law arsenic acid (CAS 7778-39-4) US. Rhode Island RTK arsenic acid (CAS 7778-39-4) US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance arsenic acid (CAS 7778-39-4) Listed: February 27, 1987 16. Other information, including date of preparation or last revision 08-26-2013 Issue date Revision date 07-14-2015

Version #	04
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents
Disclaimer	Additional information is given in the Material Safety Data Sheet. Materion - Milwaukee cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This document has been prepared using data from sources considered to be technically reliable and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and regulations.