

Section 1 - Chemical Product and Company Identification

MSDS Name:

Arsenious acid solution

Catalog Numbers:

LC11520

Synonyms:

Company Identification:

LabChem, Inc. 200 William Pitt Way Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
1327-53-3	Arsenic trioxide	0.5
7664-93-9	Sulfuric acid	0.04

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless Caution! May cause irritation with possible injury by all exposure routes. Target Organs: Noneknown.

Potential Health Effects

Eye:

Eye contact may result in pain, photophobia, tearing, edema, corneal ulceration, burns, and deept is suggested as the second s

Skin:

Dermal burns may occur depending on duration of contact.



Ingestion:

Ingestionmaycausepain, nausea, vomiting, diarrhea, hematemesis, hypotension, nephritis, albuminuria, oliguria, anuria, hematuria, possible circulatory collapse.

Inhalation:

Maycausecoughing, headache, dizziness, weaknessifinhaled.

Chronic:

Maycausedermatitisandconjunctivitis.ARSENICTRIOXIDEMAYCAUSECANCEROFTHELUNGS, LARYNX, LYMPHATIC SYSTEM OR VISCERA. May result in chronic cough or bronchitis, diarrhea, nausea, weakness, anemia; central nervous and gastrointestinal systems as well as liver and kidney and cardiovascular involvement can occur.

Section 4 - First Aid Measures

Eyes:

Flusheyeswithplentyofwaterforatleast15minutes,occasionallyliftingtheupperandlowerlidsuntilnoevidence of chemical remains. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

Skin:

Getmedicalaid.Immediatelyflushskinwithplentyofsoapandwaterforatleast15minuteswhileremoving contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

Ingestion:

Getmedicalaidatonce.Giveconsciousvictimlargequantitiesofwatertodiluteacid.Donotusegastriclavageor induce vomiting. Medical personnel should maintain airway and respiration, treat for shock.

Inhalation:

Giveartificial respiration if necessary. Get medicalaid. Keepvictim warm, at rest. Movevictim to freshair.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligiblefireandexplosionhazardwhenexposedtoheatorflame.Movecontainerifpossible,avoidbreathing vapors or dust. Wear self-contained breathing apparatus and protective clothing to prevent contact. Avoid breathing corrosive poisonous vapors (arsenic oxides).

Extinguishing Media:

Forsmallfires, usedrychemical, carbondioxide, waters prayoral cohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published. CAS# 1327-53-3: Not published. CAS# 7664-93-9: Not published.

Explosion Limits:

Lower: Upper:



Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorbspillswithabsorbent(vermiculite,sand,fuller'searth)andplaceinplasticbagsforlaterdisposal.Ventilate and wear protective clothing. Material should be neutralized, add filtering agent (10gm per 100ml); evaporate liquid, bag residual solid for burial in approved hazardous waste land site.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, orgas. DONOT PIPETOR TRANSFERBY MOUTH.

Storage:

Storecappedatroomtemperature.Protectfromheatandincompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation. WORKUNDERAFUME HOOD.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Arsenic trioxide	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Sulfuric acid	1 mg/m3 TWA;3 mg/m3 STEL	1 mg/m3 TWA	1 mg/m3 TWA;

OSHA Vacated PELs

Sulfuric acid: 1 mg/m3 TWA

Personal Protective Equipment

Eyes:

Donotwear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wearappropriateprotectiveglovestopreventskinexposure.

Clothing:

Wearappropriate protective clothing to prevent skinex posure.



Respirators:

Notrequiredfornormaluse.Firefighting--anyself-containedbreathingapparatuswithfullfacepieceoperated in pressure-demand mode. 100ug(As)/M3 - half-mask air-purifying resp. with high efficiency filter: half-mask Supplied Air Resp. 500ug(As)/-M3 - powered air-purifying resp. with high efficiency filter, full facepiece; self-contained breathing apparatus with full facepiece. 10mg(As)/M3 - powered air-purifying resp. with high efficiency filter, full facepiece; filter, full facepiece; half-mask supplied-air resp. operated in pos. press. mode. 20mg(As)/M3 - supplied-air resp., full facepiece, hood, helmet or suit

operated in pos. press. mode.

Section 9 - Physical and Chemical Properties

Physical State:	Liquid
Color:	Colorless
Odor:	Odorless
pH:	Acidic
Vapor Pressure:	No information found.
Vapor Density:	No information found.
Evaporation Rate:	No information found.
Viscosity:	No information found.
Boiling Point:	No information found.
Freezing/Melting Point:	No information found.
Decomposition Temperature:	No information found.
Solubility in water:	No information found.
Specific Gravity/Density:	1.0
Molecular Formula:	No information found.
Molecular Weight	No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Oxidizing materials.

Hazardous Decomposition Products

Arsenic oxides.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000. CAS# 1327-53-3: CG3325000. CAS# 7664-93-9: WS5600000.



LD50/LC50:

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg. CAS# 1327-53-3: Oral, mouse: LD50 = 31500 ug/kg Oral, rabbit: LD50 = 20190 ug/kg Oral, rat: LD50 = 14600 ug/kg. CAS# 7664-93-9: Inhalation, mouse: LC50 =320 mg/m3/2H Inhalation, rat: LC50 =510 mg/m3/2H Oral, rat: LD50 = 2140 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65. CAS# 1327-53-3: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65. CAS# 7664-93-9 ACGIH: A2 - Suspected Human Carcinogen (contained in strong inorganic acid mists) California:Notlisted. NIOSH: Not listed. NTP:Notlisted. OSHA: Select carcinogen IARC: Group 1 carcinogen

Epidemiology:

Eye, skin, mucous membrane irritant. May cause sensitization. Poisoning may affect gastrointestinal, cardiovascular, and central nervous systems, liver, and kidneys.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Arsenic compound liquid, n.o.s. (Arsenic trioxide)

Hazard Class: 6.1 UN Number: UN1556



Packing Group: PG III

Section 15 - Regulatory Information

US Federal

TSCA

CAS#7732-18-5islistedontheTSCAInventory. CAS#1327-53-3islistedontheTSCAInventory. CAS#7664-93-9islistedontheTSCAInventory.

SARA Reportable Quantities (RQ)

CAS#1327-53-3:finalRQ=1pound(0.454kg) CAS#7664-93-9:finalRQ=1000pounds(454kg)

CERCLA/SARA Section 313

SulfuricacidisnotatahighenoughconcentrationtobereportableunderSection313.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

Arsenic trioxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida,

Pennsylvania, Massachusetts.

Sulfuric acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List. CAS# 1327-53-3 is listed on Canada's DSL List. CAS# 7664-93-9 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List. CAS# 1327-53-3 is listed on Canada's Ingredient Disclosure List. CAS# 7664-93-9 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: September 9, 1998 Revision Date: September 10,2007

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