

## SAFETY DATA SHEET

Preparation Date: 10/24/2019

Revision date 10/24/2019

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** AA115  
**Product Name:** ARSENIC ATOMIC ABSORPTION STANDARD

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** Mixture  
**RTECS #** Not available  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Corrosive to metals	Category 1

#### Label elements

##### **Danger**

##### **Hazard statements**

Causes severe skin burns and eye damage  
 Suspected of causing genetic defects  
 May cause cancer

Suspected of damaging fertility or the unborn child  
May be corrosive to metals



#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

Not available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe mist or vapors  
Wash face, hands and any exposed skin thoroughly after handling  
Keep only in original container

#### **Precautionary Statements - Response**

*Immediately call a POISON CENTER or physician*  
Absorb spillage to prevent material damage  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.  
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up  
Store in corrosive resistant/ .? container with a resistant inner liner

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component</b>	<b>CAS No</b>	<b>Weight-%</b>
Water	7732-18-5	97.9
Nitric acid	7697-37-2	2
Arsenic Trioxide	1327-53-3	0.1

### **4. FIRST AID MEASURES**

#### **First aid measures**

#### **General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or poison control center immediately.

**Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or 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. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**

- Causes severe skin burns
- Causes eye damage
- May cause gastrointestinal (digestive) tract burns
- Can burn mouth, throat, and stomach
- May cause stomach cramping
- Vomiting
- May cause hypermotility, diarrhea
- Jaundice
- Hepatitis
- Anemia
- Weakness
- Headache
- Convulsions
- garlic breath

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products** No information available.

**Specific hazards** No information available.

**Special Protective Actions for Firefighters**

**Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions:**

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up****Methods for containment**

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE****Precautions for safe handling****Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice:**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities****Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

**Incompatible Materials:**Reducing agents  
Acids  
Metals  
Alkalis  
Organic materials  
Combustible materials**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****National occupational exposure limits**

## United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Water	7732-18-5	None	None	None	None
Nitric acid	7697-37-2	2 ppm TWA 5 mg/m <sup>3</sup> TWA	2 ppm TWA 5 mg/m <sup>3</sup> TWA 4 ppm STEL 10 mg/m <sup>3</sup> STEL	4 ppm STEL 2 ppm TWA	No information available
Arsenic Trioxide	1327-53-3	None	None	0.01 mg/m <sup>3</sup> TWA (as AS) (inorganic Arsenic compounds)	None

## Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Water	7732-18-5	None	None	None	None
Nitric acid	7697-37-2	2 ppm TWA 5.2 mg/m <sup>3</sup> TWA 4 ppm STEL 10 mg/m <sup>3</sup> STEL	2 ppm TWA 4 ppm STEL	4 ppm STEL	None
Arsenic Trioxide	1327-53-3	0.01 mg/m <sup>3</sup> TWA (as AS) (inorganic Arsenic compounds)	0.01 mg/m <sup>3</sup> TWA (as AS) (inorganic Arsenic compounds)	None	None

## Australia and Mexico

Component	CAS No	Australia	Mexico
Water	7732-18-5	None	None
Nitric acid	7697-37-2	4 ppm STEL 10 mg/m <sup>3</sup> STEL 2 ppm TWA 5.2 mg/m <sup>3</sup> TWA	2 ppm TWA 4 ppm STEL
Arsenic Trioxide	1327-53-3	None	0.01 mg/m <sup>3</sup> TWA

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

- Eye protection:** Face-shield. or Goggles
- Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves  
If working with large quantities:  
Chemical resistant protective suit
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> Clear.	<b>Color:</b> Colorless.
<b>Odor:</b> No information available.	<b>Taste</b> No information available.	<b>Formula</b> No information available
<b>Molecular/Formula weight (g/mole):</b> No information available	<b>Flammability (solid, gas)</b> no data available	<b>Flashpoint (°C/°F):</b> No information available
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> No information available	<b>pH</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in Water	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with alkalis  
Reactive with metals

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:**  
Reducing agents  
Acids  
Metals  
Alkalis  
Organic materials  
Combustible materials

**Hazardous decomposition products:** No information available.

### Other Information

**Corrosivity:**  
Extremely corrosive in presence of copper  
Severe corrosive effect on Brass  
Corrosive in presence of steel

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Principal Routes of Exposure:

Skin. Eyes. Ingestion.

### Acute Toxicity

#### Component Information

Water	
CAS No	7732-18-5

**LD50/oral/rat** = > 90 mL/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

Nitric acid	
CAS No	7697-37-2

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 67 ppm Inhalation LC50 Rat 4 h  
2500 ppm Inhalation LC50 Rat 1 h  
130 mg/m<sup>3</sup> 4 h  
7 mg/l 1 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = 430 mg/kg Oral LDL Rat

Arsenic Trioxide	
CAS No	1327-53-3

**LD50/oral/rat** = 20 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 20 mg/kg (RTECS)  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

#### Product Information

**LD50/oral/rat** =  
**Value - Acute Toxicity** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox** = No information available

**LD50/dermal/rabbit**  
**Value - Acute Toxicity** = No information available

**LD50/dermal/rat**

VALUE - Acute Tox = No information available

**LC50/inhalation/rat**

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms****Skin Contact:** Causes skin burns.**Eye Contact:** Causes serious eye damage.**Inhalation** May cause irritation of respiratory tract.**Ingestion** May cause vomiting. May cause hypermotility, diarrhea. May affect the liver and cause jaundice, a yellowing of the skin and/or eyes. May affect the blood (anemia). May affect urinary system (kidneys). May cause headache. May affect behavior/central nervous system (muscle weakness, convulsions).**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available.**Sensitization:** No information available.**Mutagenic Effects:** No information available**Carcinogenic effects:** May cause cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Nitric acid	7697-37-2	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Arsenic Trioxide	1327-53-3	Group 1- Carcinogenic to humans - Supplement 7 [1987] Arsenic inorganic compounds	A1 - Confirmed Human Carcinogen (Arsenic inorganic compounds)	Known Human Carcinogen Arsenic and inorganic arsenic compounds	Present	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)**IARC (International Agency for Research on Cancer)**NTP (National Toxicology Program)**OSHA (Occupational Safety and Health Administration of the US Department of Labor)*



**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

*Nitric acid - 7697-37-2*

**Fish** 72 mg/L LC50 *Gambusia affinis* 96h

*Arsenic Trioxide - 1327-53-3*

**Fish** LC50: =135mg/L (96h, *Pimephales promelas*) LC50: 18.8 - 21.4mg/L (96h, *Oncorhynchus mykiss*) LC50: >1000mg/L (96h, *Oncorhynchus mykiss*)

**Crustacea** EC50: 3.9 - 4.5mg/L (24h, *Daphnia magna*) LC50: =0.96mg/L (96h, *Daphnia magna*)

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	7732-18-5	None	None	None	None
Nitric acid	7697-37-2	None	None	None	None
Arsenic Trioxide	1327-53-3	None	None	P012	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Hazard Class** 8  
**Subsidiary Class** No information available

**Packing group:** II  
**Emergency Response Guide Number:** 157  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** B2, B47, B53, IB2, T8, TP2  
**Symbol(s):** No information available  
**Description:** UN2031, Nitric acid, 8, II

**TDG (Canada)**

**UN-No:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant:** No Information available  
**Description:** Forbidden for transport by passenger carrying vessel, passenger carrying road vehicle or passenger carrying railway vehicle

**ADR**

**UN Number:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Transport hazard class(es):** 8  
**Packing group:** II  
**Subsidiary Risk:** No information available  
**Description:** UN2031, Nitric acid, 8, II

**IMDG**

**UN-No:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant:** No information available  
**EMS:** F-A  
**Description:** UN2031, Nitric acid, 8, II

**RID**

**UN Number:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Transport hazard class(es):** 8  
**Subsidiary Risk:** No information available  
**Packing group:** II  
**Description:** UN2031, Nitric acid, 8, II

**ICAO (air)**

**UN-No:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN2031, Nitric acid, 8, II

**IATA**

**UN Number:** UN2031  
**Proper Shipping Name:** Nitric acid  
**Transport hazard class(es):** 8  
**Subsidiary Risk:** No information available

**Packing group** II  
**Precautionary Statements - Response** 8L  
**Special Provisions** No information available  
**Description:** UN2031, Nitric acid, 8, II

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Water	7732-18-5	PresentACTIVE	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Nitric acid	7697-37-2	Present (ACTIVE)	Present KE-25911	Present	Present (1)-394	Present	Present	Present 231-714-2
Arsenic Trioxide	1327-53-3	PresentACTIVE	Present KE-09858	Present	Present (9)-2400,(1)-3 5	Present	Present	Present 215-481-4

**U.S. Regulations**

*Nitric acid*

**Massachusetts RTK:** Present  
**Massachusetts EHS:** extraordinarily hazardous  
**New Jersey RTK Hazardous Substance List:** 1356  
**New Jersey (EHS) List:** 1356 500 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**New Jersey TCPA - EHS:** 15000lbTQ  
 450lbTQ  
**Pennsylvania RTK:** Environmental hazard  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Michigan PSM HHC:** = 500 lb TQ 94.5% by weight or greater  
**Minnesota - Hazardous Substance List:** Present  
**New York Release Reporting - List of Hazardous Substances:**  
 1000 lb RQ  
 100 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** 1000lbfinal RQAs listed in 40 CFR 117.3 Table 117.3 and 40 CFR 302.4 Table 302.4  
 454kgfinal RQAs listed in 40 CFR 117.3 Table 117.3 and 40 CFR 302.4 Table 302.4  
 1000lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period  
 100lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into the atmosphere  
**California Directors List of Hazardous Substances:** Present

*Arsenic Trioxide*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 0161  
**New Jersey (EHS) List:** 0161 100 lb TPQ  
**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present  
**Pennsylvania RTK:** Environmental hazard  
 Special hazardous substance  
**Pennsylvania RTK - Environmental Hazard List** Present  
**Pennsylvania RTK - Special Hazardous Substances** Present  
**Minnesota - Hazardous Substance List:** Present (inorganic Arsenic compounds)  
**New York Release Reporting - List of Hazardous Substances:**  
 1 lb RQ  
**Louisiana Reportable Quantity List for Pollutants:** Listed  
**California Directors List of Hazardous Substances:** Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Nitric acid	7697-37-2	Not Listed	Not Listed	Not Listed	Not Listed
Arsenic Trioxide	1327-53-3	Not Listed	Developmental toxicity (Arsenic inorganic oxides)	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Water	7732-18-5	None	None	None	None	None
Nitric acid	7697-37-2	1000 lb final RQ 454 kg final RQ	1000 lb EPCRA RQ	None	None	1.0 % de minimis concentration
Arsenic Trioxide	1327-53-3	1 lb final RQ 0.454 kg final RQ	1 lb EPCRA RQ	None	Inorganic Arsenic compounds	0.1%

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Nitric acid	7697-37-2	Not Applicable	Not Applicable
Arsenic Trioxide	1327-53-3	Not Applicable	Not Applicable

**Canada**

**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Component  
Water  
7732-18-5 ( 97.9 )  
Nitric acid  
7697-37-2 ( 2 )

WHMIS 2015 Hazard Classification  
Not a dangerous product according to HPR classification criteria

Oxidizing liquids - Category 3: H272 May intensify fire, oxidizer.; Corrosive to Metals - Category 1: H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Acute toxicity - Inhalation - Category 1: H330 Fatal if inhaled.; Acute toxicity - Inhalation - Category 3: H331 Toxic if inhaled. (6.3%); Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)

Water	7732-18-5	Present	Not Listed
Nitric acid	7697-37-2	Present	Not Listed
Arsenic Trioxide	1327-53-3	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Nitric acid	7697-37-2	Not listed
Arsenic Trioxide	1327-53-3	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Water	7732-18-5	Not listed
Nitric acid	7697-37-2	Not listed
Arsenic Trioxide	1327-53-3	Not listed

## EU Classification

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Nitric acid	7697-37-2	Oxidizing liquids - Ox. Liq. 2: H272 May intensify fire, oxidizer.; Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage.; Supplemental Hazards - EUH071 Corrosive to the respiratory tract.007-004-00-1 Oxidizing liquids - Ox. Liq. 2: H272 May intensify fire, oxidizer. (C >= 99 %); Oxidizing liquids - Ox. Liq. 3: H272 May intensify fire, oxidizer. (65 % <= C <99 %); Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (C >= 20 %); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (5 % <= C <20 %)007-004-00-1
Arsenic Trioxide	1327-53-3	Acute toxicity - Oral - Acute Tox. 2: H300 Fatal if swallowed. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.; Carcinogenicity - Carc. 1A: H350 May cause cancer.; Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.033-003-00-0

### EU - CLP (1272/2008)

#### R-phrase(s)

R34 - Causes burns  
R45 - May cause cancer

#### S -phrase(s)

S23 - Do not breathe gas/fumes/vapor/spray  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36 - Wear suitable protective clothing

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Water	7732-18-5		No information	
Nitric acid	7697-37-2	C; R35 O; R8	20%≤C C;R35 5%≤C<20% C;R34 70%≤C O;R8	S1/2 S23 S26 S36 S45
Arsenic Trioxide	1327-53-3	T+; R28 C; R34 Carc.Cat.1; R45 N; R50-53	No information	S53 S45 S60 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

C - Corrosive

**16. OTHER INFORMATION**

**Preparation Date:** 10/24/2019  
**Revision date** 10/24/2019  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**