



# SAFETY DATA SHEET

Preparation Date: 08/04/2015 Revision Date: 08/04/2015 Revision Number: g1

1. IDENTIFICATION

**Product identifier** 

Product code: AA280

Product Name: SILVER 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: Laboratory reagent.
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 numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

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

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

#### Label elements

Product code: AA280 Product name: SILVER ATOMIC 1/13

#### Danger

#### Hazard statements

Causes severe skin burns and eye damage

May be corrosive to metals



### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Keep only in original container

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

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

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 doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/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/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Water	7732-18-5	98.5	*
7732-18-5			
Nitric Acid, fuming	7697-37-2	1.4	*
7697-37-2			

Product code: AA280 Product name: SILVER ATOMIC 2 / 13
ABSORPTION STANDARD

3. COMPOSITION/INFORMATION ON INGREDIENTS						
Silver	7440-22-4	0.1	*			
7440-22-4						

#### 4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**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 Centre immediately.

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

immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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. 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 serious eye damage. May cause irritiation to mucous

membranes. May cause irritation of respiratory tract. May cause coughing and shortness of

breath. Choking sensation. Severe over-exposure can result in death.

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: Slightly explosive to explosive in presence of reducing

materials, of combustibles materials, of organic materials

**Special Protective Actions for Firefighters** 

**Specific Methods:** No information available.

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#### **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. Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Evacuate

personnel to safe areas.

**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), then place in a suitable chemical waste container.

**Methods for cleaning up**Neutralize the residue with a dilute solution of sodium carbonate. 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

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Do not smoke. 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. May corrode metallic surfaces. Do not store in uncoated metallic containers. Store in a coated fiberboard drum using a strong polyethylene inner package. Store away from incompatible materials. Store in a segrated and approved area.

#### **Incompatible Materials:**

Alkalis.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

# National occupational exposure limits

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Water	None	None	None	None
7732-18-5				
Nitric Acid, fuming	2 ppm TWA	2 ppm TWA	4 ppm STEL	None
7697-37-2	5 mg/m³ TWA	5 mg/m³ TWA	2 ppm TWA	
		4 ppm STEL		
		10 mg/m <sup>3</sup> STEL		

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	0.01 mg/m³ TWA	= 0.01 mg/m <sup>3</sup> TWA	= 0.1 mg/m <sup>3</sup> TWA dust	None
7440-22-4		_	and fume	

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Water	None	None	None	None
7732-18-5				
Nitric Acid, fuming	2 ppm TWA	2 ppm TWA	2 ppm TWA	2 ppm TWAEV
7697-37-2	5.2 mg/m <sup>3</sup> TWA	4 ppm STEL		5.2 mg/m <sup>3</sup> TWAEV
	4 ppm STEL			4 ppm STEV
	10 mg/m <sup>3</sup> STEL			10 mg/m <sup>3</sup> STEV
Silver	= 0.1 mg/m <sup>3</sup> TWA	= 0.01 mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA dust and	0.1 mg/m³ TWAEV
7440-22-4	_	_	fume	_

#### **Australia and Mexico**

Components	Australia	Mexico
Water	None	None
7732-18-5		
Nitric Acid, fuming	None	2 ppm TWA
7697-37-2		5 mg/m³ TWA
		4 ppm STEL
		10 mg/m³ STEL
Silver	0.1 mg/m³ TWA	= 0.1 mg/m <sup>3</sup> TWA
7440-22-4		

### Appropriate engineering controls

**Engineering measures to reduce exposure:** 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:** Chemical resistant protective suit. Gloves. boots.

**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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid. No information available Clear. Colorless.

Odor: Taste

Formula: Flammability: Flash point (°C):

Flashpoint (°C/°F): Flash Point Tested according to: Lower Explosion Limit (%):

No information available. Not available

Autoignition Temperature (°C/°F): Upper Explosion Limit (%): pH:

No information available

No information available

No information available

Acidic

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

-41.6°C/-42.9°F (Nitric acid, fuming) 82.6°C/180.7°F (Nitric acid). Weighted No information available

average: 99.76°C/ 211.6°F

Bulk density: Specific gravity: Vapor pressure @ 20°C (kPa):

No information available (Water = 1) 6 (Nitric acid, fuming). Weighted

average: 2.39

Density (g/cm3):Evaporation rate:Vapor density:No information availableNo information available0.62 (Air = 1) (Water)

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information available0.29 (Nitric acid, fuming)(n-octanol/water):

No information available

Molecular/Formula weight:

No information available

Viscosity: Miscibility: Solubility:

No information available

No information available

Easily soluble in cold water

### 10. STABILITY AND REACTIVITY

Reactivity

Highly reactive with alkalis.

Slightly reactive with reducing agents, combustible materials, organic materials, metals, acids, and bases.

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** Alkalis.

Hazardous decomposition products: No information available

Other Information

Corrosivity: Highly corrosive in the presense of aluminum, of zinc

Highly corrosive in presence of copper

Slightly corrosive in presence of stainless steel (304) Slightly corrosive in presence of stainless steel (316)

Non-corrosive in the presence of glass

Special Remarks on Corrosivity: No information available

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### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Skin. Eyes. Inhalation. Ingestion.

# **Acute Toxicity**

#### **Component Information**

Water - 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Nitric Acid, fuming - 7697-37-2

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = 67 ppm Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Silver - 7440-22-4

LD50/oral/rat = > 2000 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

**LC50/inhalation/rat** = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

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**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:** Corrosive. Causes severe irritation and burns.

**Eye Contact:** Corrosive. Causes severe irritation and burns.

**Inhalation** Inhalation of mist or vapors may cause respiratory tract irritation and mucous

membrane irritation.

**Ingestion** Corrosive. May cause digestive (gastointestinal) tract irritation.

**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: Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic	Australia - Notifiable Carcinogenic
				· ·	Substances	Substances
Water	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Nitric Acid, fuming	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Silver	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:
No information available
No information available
No information available

**Specific Target Organ Toxicity** 

**STOT - single exposure**STOT - repeated exposure
No information available
No information available

Target Organs: Urinary Tract. Central nervous system.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** Aquatic environment.

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Silver - 7440-22-4

Freshwater Fish Species Data: 0.064 mg/L LC50 Lepomis macrochirus 96 h static 1

0.00155-0.00293 mg/L LC50 Pimephales promelas 96 h static 1

0.0062 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1

Water Flea Data: 0.00024 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: No information available

No information available Bioaccumulative potential:

No information available **Mobility:** 

### 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

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	None	None	None	None
Nitric Acid, fuming	None	None	None	None
Silver	None	None	None	None

### 14. TRANSPORT INFORMATION

DOT

UN-No: UN2031

**Proper Shipping Name:** Nitric acid (Solution)

**Hazard Class:** 

**Subsidiary Risk:** 

**Packing Group:** Ш **ERG No:** 157

No data available **Marine Pollutant** 

DOT RQ (lbs): No information available

Symbol(s):

TDG (Canada)

UN-No: UN2031 **Proper Shipping Name:** Nitric acid

**Hazard Class:** 

Subsidiary Risk: No information available

**Packing Group:** 

Description: No information available

**ADR** 

UN-No: UN2031 **Proper Shipping Name:** Nitric acid

**Hazard Class:** 

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# 14. TRANSPORT INFORMATION

Packing Group:

Subsidiary Risk:
Classification Code:
Description:
No information available
No information available
No information available
No information available

**IMO / IMDG** 

UN-No: UN2031 Proper Shipping Name: Nitric acid

Hazard Class: 8
Subsidiary Risk: 5.1
Packing Group: ||

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-A

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN2031 Proper Shipping Name: UN2031

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

Classification Code: No information available Description: No information available

**ICAO** 

UN-No: UN2031 Proper Shipping Name: Nitric acid

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group:

**Description:** No information available

IATA

UN-No: UN2031 Proper Shipping Name: Nitric acid

Hazard Class: 8

Subsidiary Risk: No information available

Packing Group: II ERG Code: 8L

**Description:** No information available

### 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Water	Present	Present KE- 35400	Present	Not present	Present	Present	Present 231-791-2
Nitric Acid, fuming	Present	Present KE- 25911	Present	Present (1)- 394	Present	Present	Present 231-714-2
Silver	Present	Present KE- 31261	Present	Not present	Present	Present	Present 231-131-3

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#### **U.S. Regulations**

Nitric Acid, fuming

Massachusetts RTK: Present

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 Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 100 lb RQ

Louisana 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

Silver

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1669

New Jersey (EHS) List: 1669 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present
Pennsylvania RTK - Special Hazardous Substances Present

Michigan - Critical Materials List: Present Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

= 1000 lb RQ

Louisana 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)

Components	Carcinogen			Female Reproductive
			Toxicity	Toxicity:
Water	Not Listed	Not Listed	Not Listed	Not Listed
Nitric Acid, fuming	Not Listed	Not Listed	Not Listed	Not Listed
Silver	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

· ·	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Water	None	None	None	None	None
Nitric Acid, fuming	1000 lb final RQ	1000 lb TPQ	None	None	1.0 % de minimis
	454 kg final RQ				concentration
Silver	= 1000 lb final RQ	None	None	None	1.0 % de minimis
					concentration

U.S. TSCA

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•	``	TSCA 8(d) -Health and Safety Reporting	
	New Use Rules (SNURS)		
Water	Not Applicable	Not Applicable	
Nitric Acid, fuming	Not Applicable	Not Applicable	
Silver	Not Applicable	Not Applicable	

#### Canada

#### WHMIS hazard class:

E Corrosive material

#### Water

Uncontrolled product according to WHMIS classification criteria

#### Nitric Acid, fuming

C E including 61.3%, 67.18%, 70%

E 0.63%, 6.3%

#### Silver

Uncontrolled product according to WHMIS classification criteria

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Nitric Acid, fuming	1 %
Silver	1 %

# Inventory

Components	Canada (DSL)	Canada (NDSL)
Water	Present	Not Listed
Nitric Acid, fuming	Present	Not Listed
Silver	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
Water	Not listed	Not listed	
Nitric Acid, fuming	Not listed	Not listed	
Silver	Not listed	Not listed	

#### **EU Classification**

#### R-phrase(s)

R 8 - Contact with combustible material may cause fire.

R35 - Causes severe burns.

#### 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).

S 1/2 - Keep locked up and out of the reach of children.

Components	Classification	Concentration Limits:	Safety Phrases
Water		No information	

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Nitric Acid, fuming	C; R35	No information	S1/2 S23 S26 S36 S45
	O; R8		
Silver		No information	

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

#### Indication of danger:

C - Corrosive.



# 16. OTHER INFORMATION

Preparation Date:08/04/2015Revision Date:08/04/2015Prepared 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** 

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ABSORPTION STANDARD