



SAFETY DATA SHEET

Preparation Date: 09/17/2019 Revision date 09/17/2019 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: O-120

Product Name: OXALIC ACID, 10 PERCENT (W/V) AQUEOUS SOLUTION

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:
Uses advised against
No information available.
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
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Danger

Hazard statements

Causes severe skin burns and eye damage

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure

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Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Do not breathe mist or vapors

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Immediately call a POISON CENTER or physician

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.

Call a POISON CENTER or physician if you feel unwell.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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

Component	CAS No	Weight-%
Water	7732-18-5	90
Oxalic Acid, Dihydrate	6153-56-6	10

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. First aider needs to protect himself. Ensure that medical

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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. 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 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. 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. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Severe skin and eye irritation or burns

May cause conjunctivitis
May cause corneal injury
Irritating to respiratory system

Causes digestive (gastrointestinal) tract irritation May cause gastrointestinal (digestive) tract burns

It may affect the urinary system It may affect the kidneys May cause hypocalcemia

May affect the cardiovascular system

Hypotension

May cause abdominal pain, nausea, vomiting, diarrhea

Burning pain in the mouth, throat, esophagus, stomach. Ulceration/burning of the mouth,

throat, esophagus, stomach

May cause central nervous system effects

Headache Convulsions Twitching

May cause tingling of hands and feet

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

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Hazardous combustion products

No information available.

Specific hazardsMay be ignited by heat, sparks or flames.

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

protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to

safe areas. 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 containmentStop 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 upUse appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Neutralize the residue with a dilute solution of sodium

carbonate. 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. Use only in well-ventilated areas. 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.

Incompatible Materials:

Oxidizing agents Metals Alkalis

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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
Oxalic Acid, Dihydrate	6153-56-6	1 mg/m³ TWA (for Oxalic acid, anhydrous)	2 mg/m³ STEL 1 mg/m³ TWA (for Oxalic acid, anhydrous)	2 mg/m³ STEL 1 mg/m³ TWA	None

Canada

Component	CAS No	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
			Columbia		
Water	7732-18-5	None	None	None	None
Oxalic Acid, Dihydrate	6153-56-6	None	2 mg/m³ STEL 1 mg/m³ TWA (for Oxalic acid,	2 mg/m³ STEL 1 mg/m³ TWA (for Oxalic acid,	None
			anhydrous)	anhydrous)	

Australia and Mexico

Component	CAS No	Australia	Mexico
Water	7732-18-5	None	None
Oxalic Acid, Dihydrate	6153-56-6	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. 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

Product code: O-120

Eye protection: Goggles

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

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

Product name: OXALIC ACID, 10 Page 5 / 13 PERCENT (W/V) AQUEOUS

SOLUTION

Physical state: Color: Appearance: Liquid Clear. Colorless.

Odor: **Taste Formula**

Odorless. No information available. No information available

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F): No information available

No information available no data available

Flash Point Tested according to: Autoignition Temperature (°C/°F):

Not available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Lower Explosion Limit (%):

No information available

No information available

No information available -3°C/ 27°F

Boiling point/range(°C/°F): **Bulk density:** Density (q/cm3):

100°C/ 212°F (water) No information available No information available

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

1.04-1.05 No information available 2.3 (Water)

Evaporation rate: Vapor density: VOC content (g/L): No information available No information available No information available

Odor threshold (ppm): Partition coefficient **Viscosity:** No information available No information available (n-octanol/water):

No information available

Miscibility: Solubility:

Easily soluble in cold water No information available

Easily soluble in hot water Partially soluble in diethyl ether

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents, metals, bases

Incompatible with chlorites, hypochlorites, silver and silver compounds, furfuryl alcohol

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

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

Incompatible Materials: Oxidizing agents

> Metals Alkalis

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: Non-corrosive in the presence of glass

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Skin. Eyes. Ingestion. Inhalation.

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

Oxalic Acid, Dihydrate

CAS No 6153-56-6

LD50/oral/rat = 375 mg/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

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

Product code: O-120

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Product name: OXALIC ACID, 10 PERCENT (W/V) AQUEOUS SOLUTION **Symptoms**

Skin Contact: Severe skin irritation. Causes skin burns.

Eye Contact: Causes severe irritation and burns. May cause corneal injury. Causes

conjunctivitis.

Inhalation Causes irritation of the respiratory tract, ulceration of the mucous membranes.

Inhalation of oxalic acid may also cause digestive disturbances such as nausea and vomiting as well as affecting the nerves and urinary system and causing

headache, muscular irrritability, weakness, and albuminuira.

Ingestion Harmful if swallowed. Causes severe digestive tract irritation and possible burns. It

may affect the cardiovascular system, and urinary system. Symptoms may include vomiting (often bloody or with coffee-ground appearance), diarrhea, bloody stool, hypermotility, abdominal pain, intense burning pain in the throat, esophagus, stomach, ulceration/burning of the mouth, esophagus, and stomach, severe purging, weak pulse, hypotension, caridac irregularities, cardiovascular collapse. Other symptoms may include convulsions, headache, twitching, tetany, stupor, coma, tingling of fingers and toes, muscular irritability. Renal damage, as evidenced by oliguria, albuminuria, hematuria, may occur because Oxalic acid can bind calcium to form calcium oxalate which is insoluble at physiological pH. The calcium oxalate formed might precipitate in the kidney tubules. Hypocalcemia may

also occur, which is what may affect the function of the heart and nerves and cause the above cardiovasular and nervous system effects.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Skin: Prolonged or repeated exposure may cause localized pain and cyanosis of

the fingers, and even gangrenous changes. This has occured on the hands of people working with oxalic acid solutions without rubber gloves. Prolonged or repeated contact with oxalic acid can also cause a skin rash, pain, redness,

blisters, and slow healing ulcers.

Ingestion and Inhalation: Repeated or prolonged ingestion and inhalation may affect metabolism/appetite resulting in weight loss. Inhalation of mist over a long period of time may result in respiratory tract inflammation. Ingestion of oxalic acid over a long period of time may cause depressed thyroid function (Oxalic acid

dihydrate).

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	Australia - Prohibited Carcinogenic
						Substances	Substances
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Oxalic Acid, Dihydrate	6153-56-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

Product code: O-120

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: May cause adverse reproductive effects based on animal data

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

Specific Target Organ Toxicity

STOT - single exposure respiratory system. **STOT - repeated exposure**No information available.

Target Organs: Kidneys. Nervous system. Mucous membrane. Heart. Brain. Skin. Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo 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
Oxalic Acid, Dihydrate	6153-56-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Hazard Class 8

Subsidiary Class No information available

Packing group:

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Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB3, T7, TP1, TP28

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

Description: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III

TDG (Canada)

UN-No: UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Hazard Class

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III

ADR

UN Number UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Transport hazard class(es) 8
Packing group |||

Subsidiary Risk: No information available

Special Provisions 274

Description: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III

IMDG

UN-No: UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 223, 274

Description UN3265, Corrosive liquid, acidic, organic, n.o.s. (OXALIC ACID, DIHYDRATE), 8,

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RID

UN Number UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Transport hazard class(es) 8

Subsidiary Risk: No information available

Packing group III Special Provisions 274

Description: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III

ICAO (air)

UN-No: UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Hazard Class 8

Subsidiary Risk: No information available

Packing Group:

Description: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III

Special Provisions A3

Product code: O-120 Product name: OXALIC ACID, 10 Page 10 / 13

IATA

UN Number UN3265

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.(oxalic acid solution)

Transport hazard class(es)

Subsidiary Risk: No information available

Packing group III Precautionary Statements - 8L

Response

Special Provisions No information available

Description: UN3265, Corrosive liquid, acidic, organic, n.o.s., 8, III

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	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
Oxalic Acid, Dihydrate	6153-56-6	Oxalic acid, dihydrate (CAS no. 6153-56-6) is exempt from TSCA(8b)Inventory listing since it is a hydrate. However, the anhydrous form (CAS number 144-62-7) is listed as ACTIVE on the TSCA (8b) Inventory		Present	Present (2)-844	Present	Present	Not present

U.S. Regulations

Oxalic Acid, Dihydrate

Pennsylvania RTK: 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	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Oxalic Acid, Dihydrate	6153-56-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
		Hazardous	Extremely	Extremely	Chemical Category	Reporting
		Substances and	Hazardous	Hazardous		de minimis

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		their Reportable Quantities	Substances and TPQs	Substances and RQs		
Water	7732-18-5	None	None	None	None	None
Oxalic Acid, Dihydrate	6153-56-6	None	None	None	None	None

U.S. TSCA

Component		` '	TSCA 8(d) -Health and Safety Reporting
Water	7732-18-5	Not Applicable	Not Applicable
Oxalic Acid, Dihydrate	6153-56-6	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Water 7732-18-5 (90) Oxalic Acid, Dihydrate 6153-56-6 (10) WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria

Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Skin corrosion/irritation - Category 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

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
Oxalic Acid, Dihydrate	6153-56-6	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Water	7732-18-5	Not listed
Oxalic Acid, Dihydrate	6153-56-6	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Water	7732-18-5	Not listed
Oxalic Acid, Dihydrate	6153-56-6	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Water	7732-18-5	
Oxalic Acid, Dihydrate	6153-56-6	No information

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EU - CLP (1272/2008)

R-phrase(s)

R34 - Causes burns

R41 - Risk of serious damage to eyes

S -phrase(s)

S 7 - Keep container tightly closed.

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	
Oxalic Acid, Dihydrate	6153-56-6		No information	

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

Indication of danger:

C - Corrosive

С



16. OTHER INFORMATION

Preparation Date: 09/17/2019
Revision date 09/17/2019
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

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