



# SAFETY DATA SHEET

Preparation Date: 06/21/2019 Revision date 06/21/2019 Revision Number: G1

# 1. IDENTIFICATION

**Product identifier** 

Product code: B1097

Product Name: BIPHENYL, REAGENT

Other means of identification

**Synonyms:** Bibenzene

1,1'-Biphenyl Diphenyl Phenylbenzene

CAS #: 92-52-4
RTECS # DU8050000
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 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

#### Warning

#### Hazard statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation

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REAGENT



#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

May be harmful if swallowed
May be harmful in contact with skin
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

# **Precautionary Statements - Storage**

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

# **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-%
Biphenyl	92-52-4	100

# 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.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

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physician.

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

oxygen. Get medical attention.

**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** Causes serious eye irritation

Causes skin irritation It may cause dermatitis Irritating to respiratory system

May affect the liver
It may affect the kidneys
It may affect the heart
Peripheral neuropathy

Paresthesia (numbness and tingling of the extremities)

Central nervous system effects

Abdominal pain

May cause nausea and vomiting May cause hypermotility, diarrhea

May affect respiration
May cause headache
May cause muscle weakness

Ataxia Somnolence Fatigue Tremors Insomnia

May cause personality and mood changes

#### 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: Dry chemical. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

Specific hazards May be combustible at high temperatures.

**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)

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

sources of ignition.

**Environmental precautions** Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

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. Cover with plastic sheet to prevent

spreading.

**Methods for cleaning up**Use appropriate tools to put the spilled solid in a suitable 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. Avoid dust formation. Keep away from incompatible materials. Remove all sources of ignition.

# Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. 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:**

Strong oxidizing agents Reducing agents Acids Alkalis

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

# National occupational exposure limits

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Biphenyl	92-52-4	0.2 ppm TWA	0.2 ppm TWA	0.2 ppm TWA	None
		1 mg/m³ TWA	1 mg/m³ TWA		

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#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Biphenyl	92-52-4	0.2 ppm TWA 1.3 mg/m³ TWA	0.2 ppm TWA	None	None

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Biphenyl	92-52-4	0.2 ppm TWA	0.2 ppm TWA
		1.3 mg/m³ TWA	

# Appropriate engineering controls

Engineering measures to reduce exposure: Use process enclosures, local exhaust ventilation, or other

engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

# Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron

Long sleeved clothing

Gloves

Effective dust mask. Use a dust respirator under conditions where exposure to Respiratory protection:

> the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. 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

Physical state: Appearance: Color: Solid Scales. White.

Odor: **Taste** Formula Pleasant. Buttery. No information available. (C6H5)2

Flashpoint (°C/°F): Molecular/Formula weight (g/mole): Flammability (solid, gas) 154.21

113°C/ 235°F no data available

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

540°C/1004°F Closed cup 0.6

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

68-72°C/ 154.4-161.6°F No information available 5.8

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Boiling point/range(°C/°F): Bulk density:

255°C/491°F No information available

Specific gravity: ph

1.041 No information available

Evaporation rate: Vapor density:

No information available 5.31

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

log Kow = 4.01

Miscibility: Solubility:

No information available Insoluble in water

Soluble in Ether

Very soluble in Benzene

Very soluble in carbon disulfide

Very soluble in Methanol

Soluble in Carbon tetrachloride

# 10. STABILITY AND REACTIVITY

Density (g/cm3):

No information available

No information available

No information available

No information available

VOC content (g/L):

Viscosity:

Vapor pressure @ 20°C (kPa):

Reactivity

No information available

**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: Strong oxidizing agents

Reducing agents

Acids Alkalis

Hazardous decomposition

products:

Carbon oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Principal Routes of Exposure:** 

Skin. Eyes. Inhalation. Ingestion.

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

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### **Component Information**

Biphenyl

CAS No 92-52-4

LD50/oral/rat = 2140 mg/kg Oral LD50 Rat

LD50/oral/mouse = 1900 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = > 5010 mg/kg Dermal LD50 Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = > 200 mg/m<sup>3</sup> Inhalation LC50 Rat

**LC50/inhalation/mouse =** > 0.275 mg/L Inhalation LC50 Mouse

Other LD50 or LC50information = 2400 mg/kg Oral LD50 Rabbit; > 2600 mg/kg Oral LD50 Cat

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = 2140 mg/kg

LD50/oral/mouse =

Value - Acute Tox = 1900 mg/kg

LD50/dermal/rabbit

Value - Acute Toxicity = > 5010 mg/kg

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** = > 200 mg/m<sup>3</sup>

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available **VALUE - Gas** = No information available **VALUE - Dust/Mist** = > 0.275 mg/L

**Symptoms** 

**Skin Contact:** Causes skin irritation. May be harmful in contact with skin.

**Eye Contact:** Causes serious eye irritation.

**Inhalation** Irritating to respiratory system. May cause nausea, vomiting. May cause

abdominal pain. May cause bronchitis. May cause anorexia or weight loss. May cause muscle weakness. It may affect respiration (respiratory stimulation). It may affect behavior/central nervous system (ataxia). It may affect the liver. May affect

the kidneys. May cause lacrimation. May affect the heart (myocarditis).

**Ingestion** May be harmful if swallowed. May cause digestive (gastointestinal) tract irritation.

May cause hypermotility, diarrhea. May affect liver. May affect behavior/central

nervous system (somnolence).

**Aspiration hazard** No information available.

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

Chronic Toxicity Chronic exposure to Biphenyl by inhalation can cause the following: Abdominal

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pain, nausea, vomiting, headache, fatigue, tremor, insomnia, sensory impairment, mood changes, cardiac impairment, central and peripheral nervous system damage and liver impairment or injury,. Prolonged or repeated inhalation may affect the peripheral nervous system (weakness, peripheral neuropathy with paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)). Prolonged or repeated inhalation may affect the kidneys. Chronic intensive skin contact may cause dermatitis.

**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 Substances	Australia - Prohibited Carcinogenic Substances
Biphenyl	92-52-4	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)

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

Target Organs: Liver. Kidneys. Heart. Central nervous system. Peripheral nervous system.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** Aquatic environment.

Biphenyl - 92-52-4

Algae/aquatic plants EC50: =1.28mg/L (3h, Chlamydomonas angulosa)

Fish LC50: 1.65 - 2.29mg/L (96h, Pimephales promelas) LC50: 1.17 - 1.81mg/L (96h,

Pimephales promelas) LC50: 4.3 - 5.1mg/L (96h, Lepomis macrochirus) LC50: 1.4

- 1.6mg/L (96h, Oncorhynchus mykiss)

**Crustacea** EC50: 0.63 - 0.85mg/L (48h, Daphnia magna)

Persistence and degradability: No information available

Bioaccumulative potential: Potential for bioconcentration in aquatic organisms is very high. Potential for

bioconcentration in aquatic organisms is high.

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Mobility in soil It is expected to have low mobility based upon estimated Koc

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
Biphenyl	92-52-4	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

Hazard Class

Subsidiary Class No information available

Packing group: III Emergency Response Guide 171

Number

Marine Pollutant Marine Pollutant DOT RQ (lbs): 100 lbs./45.4 kg

**Special Provisions** 146, 335, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33, 8

Symbol(s): No information available

**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9,

III, Marine pollutant

TDG (Canada)

**UN-No:** UN3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

Hazard Class

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant Marine Pollutant

**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Biphenyl), 9, III

**ADR** 

UN Number UN3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

Transport hazard class(es) 9
Packing group |||

Subsidiary Risk: No information available

**Special Provisions** 274, 335, 601, 375

**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(BIPHENYL), 9, III

**IMDG** 

Product code: B1097 Product name: BIPHENYL, Page 9/13

UN-No: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant Marine Pollutant

EMS: F-A

**Special Provisions** 274, 335, 966, 967, 969

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(BIPHENYL), 9, III, Marine pollutant

**RID** 

UN Number UN3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

Transport hazard class(es)

Subsidiary Risk: No information available

Packing group III

**Special Provisions** 274, 335, 375, 601

**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(BIPHENYL), 9, III

ICAO (air)

**UN-No:** UN3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

Hazard Class

Subsidiary Risk: No information available

Packing Group:

**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Biphenyl), 9, III

Special Provisions A158, A97, A179, A197

IATA

UN Number UN3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

Transport hazard class(es) 9

Subsidiary Risk: No information available

Packing group III
Precautionary Statements - 9L

Response

Special Provisions No information available

**Description:** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Biphenyl), 9, III

# 15. REGULATORY INFORMATION

# **International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Biphenyl	92-52-4	PresentACTIV E	Present KE-02861	Present	Present (4)-13	Present	Present	Present 202-163-5

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

Biphenyl

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0795

New Jersey (EHS) List: 0795 500 lb TPQ

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

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

1 lb RQ

Louisana Reportable Quantity List for Pollutants: Listed California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 178.2010

- List Sourced from EAFUS

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:
Biphenyl	92-52-4	Not Listed	Not Listed	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
Biphenyl	92-52-4	100 lb final RQ	None	None	None	1.0 % de minimis
		45.4 kg final RQ				concentration

#### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Biphenyl	92-52-4	Not Applicable	Not Applicable

# Canada

### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Biphenyl 92-52-4 (100) WHMIS 2015 Hazard Classification

Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure.; 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

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#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
	92-52-4	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances		
Biphenyl	92-52-4	Not listed		
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject		
		to Mandatory Reporting		
Biphenyl	92-52-4	Not listed		

# **EU Classification**

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

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Biphenyl	92-52-4	Skin corrosion/irritation - Skin Irrit. 2:
		H315 Causes skin irritation.; Serious
		Eye Damage/Eye Irritation - Eye Irrit.
		2: H319 Causes serious eye irritation.;
		Specific target organ toxicity - Single
		exposure - STOT SE 3: H335 May
		cause respiratory irritation.; 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.601-042-00-8

#### EU - CLP (1272/2008)

# R-phrase(s)

R50 - Very toxic to aquatic organisms

R53 - May cause long-term adverse effects in the aquatic environment

R36/37/38 - Irritating to eyes, respiratory system and skin

# S -phrase(s)

S 7 - Keep container tightly closed.

S36 - Wear suitable protective clothing

S57 - Use appropriate container to avoid environmental contamination

Component	CAS No	Classification	Concentration	Safety Phrases
			Limits:	
Biphenyl		Xi; R36/37/38 N; R50-53	No information	S: (2)-23-60-61

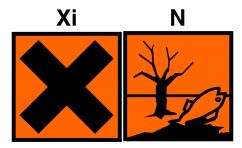
The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

Xi - Irritant

N - Dangerous for the environment

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# **16. OTHER INFORMATION**

Preparation Date:06/21/2019Revision date06/21/2019Prepared 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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