

SAFETY DATA SHEET

Preparation Date: 5/18/2017

Revision Date: 5/18/2017

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: M1080
Product Name: MALEIC ANHYDRIDE, REAGENT

Other means of identification

Synonyms: 2,5-Furandione
 cis-Butenedioic anhydride
 Maleic acid anhydride

CAS #: 108-31-6
RTECS # ON3675000
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: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

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

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Label elements

Danger

Hazard statements
 Harmful if swallowed

Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause respiratory irritation



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful in contact with skin

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing must not be allowed out of the workplace
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/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 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 skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
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/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Maleic Anhydride	108-31-6	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. 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 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. Call a physician immediately.
- 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** Severe skin and eye irritation or burns. May cause corneal injury. Causes digestive (gastrointestinal) tract irritation. May cause gastritis. May cause an allergic skin reaction. May cause allergic respiratory reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Irritating to respiratory system. May cause emphysema. May cause bronchitis. May cause burning sensation or pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. It may affect the kidneys. May cause loss of appetite. May cause nausea, headache, vomiting. Dizziness. Weakness.

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: Carbon dioxide (CO₂). Alcohol-resistant foam.

Unsuitable Extinguishing Media: Dry powder. Dry chemical. Water or foam may cause frothing.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide.

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) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:

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

Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. 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:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

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. 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 in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents
Alkali Metals
Sodium
Potassium
Lithium
Alkaline Earth metals
Magnesium
Barium
Calcium
Beryllium

Alkalis
Amines
Caustics
Water

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Maleic Anhydride	108-31-6	0.25 ppm TWA 1 mg/m ³ TWA	0.25 ppm TWA 1 mg/m ³ TWA	0.01 mg/m ³ TWA inhalable fraction and vapor	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Maleic Anhydride	108-31-6	0.1 ppm TWA 0.4 mg/m ³ TWA	0.1 ppm TWA	0.01 mg/m ³ TWA inhalable fraction and vapor	0.25 ppm TWAEV 1.0 mg/m ³ TWAEV

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Maleic Anhydride	108-31-6	0.25 ppm TWA 1 mg/m ³ TWA	0.25 ppm TWA 1 mg/m ³ TWA

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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 and Face-shield

Skin and body protection: Gloves
Boots
Chemical resistant apron
Long sleeved clothing

Respiratory protection: Respirator with combination filter for vapor/particulate. Chemical cartridge respirator with organic vapor cartridge(s) and dust and mist filter(s).

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: Solid	Appearance: Briquettes. Lumps. Pellets.	Color: White.
Odor: Strong. Irritating.	Taste No information available.	Formula: (COCH) ₂ O
Molecular/Formula weight: 98.06	Flammability: No information available	Flashpoint (°C/°F): 102 °C/215.6 °F 110 °C/230 °F
Flash Point Tested according to: Closed cup Open cup	Autoignition Temperature (°C/°F): 477 °C/890.6 °F	Lower Explosion Limit (%): 1.4
Upper Explosion Limit (%): 7.1	Melting point/range(°C/°F): 52.8-58 °C/127-136.4 °F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 202 °C/395.6 °F	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 1.48	pH: No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: 3.4	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): log Kow = 1.62	Viscosity: No information available
Miscibility: No information available	Solubility: Soluble in Water Solubility in Water: 400 g/l 25 °C Soluble in Ether	

10. STABILITY AND REACTIVITY

Reactivity

Maleic anhydride decomposes in the presence of alkali metals or amines at temperatures above 150 (°C)
 Maleic anhydride decomposes exothermically, evolving carbon dioxide in the presence of dimethylamine, triethylamine, pyridine, or quinolone at temperatures above 150 (°C)
 Alkali metals and alkaline earth metals such as potassium, lithium, calcium, barium and magnesium, as well as amines and other nitrogen compounds will cause explosive decomposition of maleic anhydride

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
 Alkali Metals
 Sodium
 Potassium
 Lithium
 Alkaline Earth metals
 Magnesium
 Barium
 Calcium

Beryllium
Alkalis
Amines
Caustics
Water

Hazardous decomposition products:

Carbon monoxide. Carbon dioxide. When heated to decomposition it emits acrid smoke and irritating fumes.

Other Information

Corrosivity:

No information available

Special Remarks on Corrosivity: Very caustic to aluminum and other metals in the presence of moisture

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation. Skin. Eyes.

Acute Toxicity

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

Component Information

Maleic Anhydride

CAS-No. 108-31-6

LD50/oral/rat = 235 mg/kg Oral LD50 Rat (LOLI)
400 mg/kg (RTECS)

LD50/oral/mouse = No information available

LD50/dermal/rabbit = 2620 mg/kg Dermal LD50Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = 0.16 mg/l 4 hr. Inhalation LC50Rat

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 235 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 2620 mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = 0.16 mg/l (4-hr.)

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms**Skin Contact:** Causes severe irritation and burns. May be harmful in contact with skin. May be harmful if absorbed through skin.**Eye Contact:** Causes severe irritation and burns. Vapors cause severe eye irritation, photophobia, double vision. May cause corneal injury.**Inhalation** Irritating to respiratory system. Symptoms may include coughing and sneezing. May cause burning sensation of the eyes and throat. May cause nosebleeds, hoarseness, and/or sore throat. May cause dyspnea (difficulty breathing or shortness of breath). May cause nausea, vomiting. May cause dizziness and headache. It may cause pulmonary edema.**Ingestion** Harmful if swallowed. May cause decreased appetite or anorexia. May cause weakness. Causes digestive (gastrointestinal) tract irritation. May cause gastritis.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** Repeated exposure may cause bronchitis to develop with cough, phlegm, and /or shortness of breath. Prolonged or repeated inhalation may cause emphysema. Prolonged or repeated exposure may cause allergic respiratory and skin reactions. Prolonged or repeated inhalation may cause occupational asthma. Prolonged or repeated inhalation may cause asthma-like allergy and asthma attacks with shortness of breath, difficulty breathing, wheezing, coughing, and/or chest tightness. Prolonged or repeated ingestion may affect the kidneys. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated ingestion may affect the blood (changes in white blood cell count). Prolonged or repeated ingestion or inhalation may cause loss of appetite and weight loss.**Sensitization:** May cause sensitization by inhalation and skin contact.**Mutagenic Effects:** No information available**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Maleic Anhydride	108-31-6	Not listed	A4 Not Classifiable as a Human Carcinogen	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**Product code:** M1080**Product name:** MALEIC ANHYDRIDE, REAGENT**8 / 13**

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

Maleic Anhydride - 108-31-6

Freshwater Algae Data: 29 mg/L EC50 *Desmodesmus subspicatus* 72 h
Freshwater Fish Species Data: 138 mg/L LC50 *Lepomis macrochirus* 48 h static 1
Water Flea Data: 84 mg/L EC50 *Daphnia magna* 24 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Maleic Anhydride	108-31-6	None	None	None	U147

14. TRANSPORT INFORMATION

DOT

UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Subsidiary Class No information available
Packing group: III
Emergency Response Guide Number 156
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions IB8, IP3, T1, TP33
Symbol(s): No information available
Description: UN2215, Maleic anhydride, 8, III

TDG (Canada)
UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: UN2215, Maleic anhydride, 8, III

ADR
UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Description: UN2215, Maleic anhydride, 8, III

IMO / IMDG
UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No information available
EMS: F-A
Description: UN2215, Maleic anhydride, 8, III

RID
UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: UN2215, Maleic anhydride, 8, III

ICAO
UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: UN2215, Maleic anhydride, 8, III

IATA
UN-No: UN2215
Proper Shipping Name: Maleic anhydride
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 8L
Special Provisions: No information available
Description: UN2215, Maleic anhydride, 8, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
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Product code: M1080

Product name: MALEIC ANHYDRIDE,
REAGENT

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				(PICCS)			(AICS)	
Maleic Anhydride	108-31-6	Present	Present KE-17314	Present	Present (2)-1101	Present	Present	Present 203-571-6

U.S. Regulations

Maleic Anhydride

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1152
New Jersey (EHS) List: 1152 500 lb TPQ
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:
 5000 lb RQ
 100 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)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Maleic Anhydride	108-31-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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
Maleic Anhydride	108-31-6	5000 lb final RQ 2270 kg final RQ	None	None	None	1.0 % de minimis concentration

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Maleic Anhydride	108-31-6	Not Applicable	09/10/1984 09/10/1994

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
 Maleic Anhydride
 108-31-6 (100)

WHMIS 2015 Hazard Classification
 Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
 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.; Respiratory sensitizers - Category 1A: H334 May cause allergic or asthmatic symptoms or breathing difficulties

if inhaled.; Skin sensitizers - Category 1A: H317 May cause allergic skin reaction.; 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

WHMIS 1988 Hazard Class

Non-controlled

Components
Maleic Anhydride

WHMIS 1988
D1B,D2A,D2B,E

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 -
Maleic Anhydride	0.1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Maleic Anhydride	108-31-6	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Maleic Anhydride	108-31-6	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Maleic Anhydride	108-31-6	Not listed

EU Classification

EU GHS - SV - CLP 172/2008

Components	CAS-No.	EU GHS - SV - CLP (172/2008)
Maleic Anhydride	108-31-6	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.; Respiratory sensitizers - Resp. Sens. 1: H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.; Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction.607-096-00-9

EU - CLP (1272/2008)

R-phrases(s)

- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R42/43 - May cause sensitization by inhalation and skin contact.

S -phrase(s)

- S 2 - Keep out of the reach of children.
- S22 - Do not breathe dust.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Maleic Anhydride	108-31-6	Xn; R22 C; R34 R42/43	No information	S:(2)-22-26-36/37/39-4 5

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

Indication of danger:

C - Corrosive.

Xn - Harmful.

16. OTHER INFORMATION

Preparation Date: 5/18/2017
Revision Date: 5/18/2017
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