spectrum®



SAFETY DATA SHEET

| Preparation Date: 6/29/2015 | Revision date 11 | 1/26/2019 | Revision Number: G2 | |
|--|--|--------------------------|--|--|
| 1. IDENTIFICATION | | | | |
| Product identifier | | | | |
| Product code: Product Name: | S1394 SODIUM PERSULFATE, RI | EAGENT | | |
| Other means of identification Synonyms: | Sodium peroxydisulfate Peroxydisulfuric acid, disodi Disodium peroxodisulfate | ium salt | | |
| CAS #: RTECS # CI#: | 7775-27-1 SE0525000 Not available | | | |
| Recommended use of the chem | ical and restrictions on use | <u>9</u> | | |
| Recommended use: | Bleaching agent. Electroplat adjustors. Starch modification Cleaning/washing agents. D No information available | on. Petroleum-depolymeri | I "shock" treatment. Viscosity zaton in oil recover. | |
| Uses advised against | | | | |
| Supplier: | Spectrum Chemical Mfg. Co 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 | • | | |
| Order Online At: Emergency telephone number Contact Person: Contact Person: | https://www.spectrumche Chemtrec 1-800-424-9300 Tom Tyner (USA - West Co Ibad Tirmiz (USA - East Coa | past) | | |
| 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)

| Acute toxicity - Oral | Category 4 |
|--|-------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Oxidizing solids | Category 3 |

Label elements

Danger

Hazard statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause respiratory irritation May intensify fire; oxidizer



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust 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 Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep/Store away from clothing and other combustible materials Take any precaution to avoid mixing with combustibles Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO2 or Halon may provide limited control.

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

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical attention

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell Rinse mouth

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-% |
|-------------------|-----------|----------|
| Sodium Persulfate | 7775-27-1 | 100 |

| | 4. FIRST AID MEASURES |
|---|--|
| First aid measures | |
| <u>First alu measures</u> | |
| 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 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 removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician. |
| Eye Contact: | Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a physician. |
| Inhalation: | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Ingestion: | Harmful if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention. |
| Most important symptoms and effect | cts, both acute and delayed |
| Symptoms | Causes skin irritation Causes eye irritation Irritating to respiratory system May cause sensitization by inhalation and skin contact May cause allergy or asthma symptoms or breathing difficulties if inhaled Coughing and wheezing Sore throat May cause build-up of fluid in the lungs (pulmonary edema) May cause inflammation of the lungs (pneumonitis) Causes digestive (gastrointestinal) tract irritation Ingestion may cause nausea, vomiting, and diarrhea Abdominal pain It may cause dermatitis Weight loss/gain |
| Indication of any immediate medica | Il attention and special treatment needed |
| Notes to Physician: | Treat symptomatically. |
| Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment | b blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of as bio-hazardous waste. |
| | 5. FIRE-FIGHTING MEASURES |
| Extinguishing Media Suitable Extinguishing Media: | Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control. |

Unsuitable Extinguishing Media:

| Hazardous combustion products | If it is involved in a fire the following can be released:. Sodium oxides. Sulfur oxides. |
|--|---|
| Specific hazards | Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Will accelerate burning when involved in a fire. Contact with combustible or organic materials may cause fire. Contact with finely divided (powdered) metals may cause ignition (fire) or explosion. Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases. |
| 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. 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 dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material. |
|----------------------------------|--|
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Do not let this chemical enter the environment. |
| Methods and material for contain | inment 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. Shovel into suitable container for disposal. Clean contaminated surface thoroughly. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. |

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.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Handle in accordance with good

industrial hygiene and safety practice. Do not breathe vapors/dust. Do not ingest. When using do not smoke. Keep away from combustible material. Use only in well-ventilated areas.

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. Do not store near combustible materials. Store away from incompatible materials.

Incompatible Materials:

Reducing agents Combustible materials Organic materials Bases Powdered metals Sodium Peroxide Alcohols Halides Hydrazine

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

| Component | CAS No | OSHA | NIOSH | ACGIH | AIHA WEEL |
|-------------------|-----------|----------------|----------------|---------------|----------------|
| Sodium Persulfate | 7775-27-1 | Not determined | Not determined | 0.1 mg/m³ TWA | Not determined |

Canada

| Component | CAS No | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|-------------------|-----------|------------------|----------------------------------|----------------------------------|-----------------|
| Sodium Persulfate | 7775-27-1 | 0.1 mg/m³ TWA | 0.1 mg/m³ TWA (as persulfate) | 0.1 mg/m³ TWA (as Persulfate) | Not determined |

Australia and Mexico

| Component | CAS No | Australia | Mexico |
|-------------------|-----------|----------------|----------------|
| Sodium Persulfate | 7775-27-1 | Not determined | Not determined |

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 |
|---------------------------|---|
| Skin and body protection: | Chemical resistant apron Long sleeved clothing Gloves |
| Respiratory protection: | Wear respirator with dust filter. |
| Hygiene measures: | Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Odor: No information available.

Molecular/Formula weight (g/mole): Flammability (solid, gas) 238.10 no data available

Flash Point Tested according to: Not available

Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): No information available

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Appearance: Crystalline powder. Crystals.

Taste Bitter. Strong.

lammability (solid

Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): 120 °C/248 °F

Bulk density: 1250-1300 kg/m³

pH 4.3 (25%)

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility:

Soluble in Water Solubility in Water: 556 g/l @ 20 °C; 430 g/l @ 25 °C; 70.7 g/l @ 120 °C Insoluble in diethyl ether Insoluble in methanol Insoluble en n-octanol Color: White.

Formula Na2S2O8

Flashpoint (°C/°F): No information available

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): >180 °C/356 °F

Density (g/cm3): 2.4-2.6

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity

Oxidizer. Reacts with reducing agents, organic material, combustible materials, and powdered metals Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire Contact with powdered metals may cause fire or explosion Can react vigorously on contact with reducing materials It may be a fire risk in contact with organic materials

Chemical stability

| Stability: | Stable under recommended storage conditions. |
|--------------------------------------|---|
| Possibility of Hazardous Reactions | : Hazardous polymerization does not occur |
| Conditions to avoid: | Heat. Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Contact with finely divided (powdered) metals. Incompatible materials. |
| Incompatible Materials: | Reducing agents Combustible materials Organic materials Bases Powdered metals Sodium Peroxide Alcohols Halides Hydrazine |
| Hazardous decomposition products: | When heated to decomposition it emits toxic fumes. Sodium oxides. Sulfur 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: Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

| Sodium Persulfate | | | |
|--|--|------|--|
| CAS No | 7775-27-1 | | |
| LD50/oral/rat = 895 | | | |
| LD50/oral/mouse = | No information available | | |
| LD50/dermal/rabbit = | >10000 mg/kg Dermal LD50 Rabbi | bit | |
| LD50/dermal/rat = N | LD50/dermal/rat = No information available | | |
| LC50/inhalation/rat = >21.6 mg/L Inhalation LC50 Rat 4 h | | | |
| LC50/inhalation/mouse = No information available | | | |
| Other LD50 or LC50i | nformation = No information availal | able | |
| | | | |
| Product Information | | | |

LD50/oral/rat = Value - Acute Toxicity = 895 mg/kg

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

| LD50/dermal/rabbit Value - Acute Toxicity = > 10000 mg/kg | | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| LD50/dermal/rat VALUE - Acute Tox = No information available | | | | | | | | |
| VALUE-Gas = No information av | LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = >21.6 mg/l (rat, 4 hr) | | | | | | | |
| LC50/Inhalation/mouse VALUE-Vapor = No information VALUE - Gas = No information a VALUE - Dust/Mist = No information | vailable | | | | | | | |
| Symptoms | | | | | | | | |
| Skin Contact: Causes skin irritation. Moderately irritating to the skin. May cause allergic skin reaction. rash. It may cause dermatitis. | | | | | | | | |
| Eye Contact: Causes serious eye irritation. Moderately irritating to the eyes. | | | | | | | | |
| Inhalation Irritating to respiratory system. It may cause pulmonary edema. Sym include sore throat, shortness of breath, coughing, wheezing, inflamm nasal passages. May cause allergic respiratory reaction due to allerg sensitization of the respiratory tract. | | | | | | | | |
| Ingestion | Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Ingestion may cause nausea, vomiting. May cause abdominal pain. | | | | | | | |
| Aspiration hazard | No information available. | | | | | | | |
| Delayed and immediate effects | as well as chronic effects from short and long-term exposure | | | | | | | |
| Chronic Toxicity Prolonged or repeated skin contact may cause allergic skin reaction. If allergy develops, very low future exposure can cause itching and skin rash. Prolonged repeated skin contact may cause dermatitis. Prolonged or repeated inhalation cause asthma-like allergy or hypersensivity reactions such as anaphylaxis, angioedema, bronchoconstriction, shortness of breath, wheezing, coughing, ch tightness, flushing, sweating, rash, tachycardia and hypotension in sensitized individuals. Prolonged or repeated inhalation may cause rhinitis, bronchitis, conjunctivitis. | | | | | | | | |
| Sensitization: | May cause sensitization by inhalation and skin contact. | | | | | | | |
| 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 |
|-------------------|-----------|------------|------------------------|------------|---------------------------|---|---|
| Sodium Persulfate | 7775-27-1 | 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: Developmental Effects: Teratogenic Effects: | No information available No information available No information available |
| Specific Target Organ Toxicity | |

| STOT - single exposure | respiratory system. |
|--------------------------|----------------------------------|
| STOT - repeated exposure | No information available. |
| Target Organs: | Skin. Respiratory system. Lungs. |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Ecotoxicity effects: | Aquatic environment. |
|--|---|
| Sodium Persulfate - 7775-27-1 Fish Crustacea | LC50: =771mg/L (96h, Lepomis macrochirus) LC50: =771mg/L (96h, Oncorhynchus mykiss) EC50: =133mg/L (48h, Daphnia magna) |
| Persistence and degradability: | No information available |
| Bioaccumulative potential: | No information available. |
| Mobility in soil Other adverse effects | No information available 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 |
|-------------------|-----------|---------------------------|---------------------------|---------------------------|---------------------------|
| Sodium Persulfate | 7775-27-1 | None | None | None | None |

14. TRANSPORT INFORMATION

DOT

| UN-No: |
|-----------------------|
| Proper Shipping Name: |
| Hazard Class |

Not Regulated Sodium persulfate 5.1

| Subsidiary Class Packing group: Emergency Response Guide Number Marine Ballutent | |
|---|---|
| Marine Pollutant DOT RQ (Ibs): Special Provisions Symbol(s): Description: | No data available No information available No Information available No information available UN1505,Sodium persulfate ,5.1,PG III |
| TDG (Canada) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Marine Pollutant Description: | UN1505 Sodium persulfate 5.1 No information available III No Information available UN1505,SODIUM PERSULFATE,5.1,PG III |
| ADR UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk: Description: | UN1505 Sodium persulphate 5.1 III No information available UN1505 Sodium persulphate,5.1,III |
| IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant EMS: | UN1505 Sodium persulphate 5.1 No information available III No information available F-A |
| RID UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Description: | UN1505 Sodium persulphate 5.1 No information available III UN1505 Sodium persulphate,5.1,III |
| ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Description: | UN1505 Sodium persulphate 5.1 No information available III UN1505,Sodium persulphate,5.1,PG III |
| IATA UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group | UN1505 Sodium persulphate 5.1 No information available III |

No information available UN1505,Sodium persulphate,5.1,PG III

15. REGULATORY INFORMATION

International Inventories

| Component | CAS No | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | China IECSC | Australia (AICS) | EINECS-No. |
|-------------------|-----------|-------------------|---------------------|------------------------|---------------------|-------------|---------------------|----------------------|
| Sodium Persulfate | 7775-27-1 | PresentACTIV E | Present KE-12369 | Present | Present (1)-1131 | Present | Present | Present 231-892-1 |

U.S. Regulations

Sodium Persulfate

New Jersey RTK Hazardous Substance List: 1721

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: |
| Sodium Persulfate | 7775-27-1 | 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 |
|---|-------------------|-----------|---|---|--|------------------------------------|--|
| S | Sodium Persulfate | 7775-27-1 | None | None | None | None | None |

U.S. TSCA

| Component | | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|-------------------|-----------|---|---|
| Sodium Persulfate | 7775-27-1 | Not Applicable | Not Applicable |

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Sodium Persulfate 7775-27-1 (100) WHMIS 2015 Hazard Classification Oxidizing solids - Category 3: H272 May intensify fire, oxidizer.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Respiratory sensitizers - Category 1: H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.; Skin sensitizers - Category 1: H317 May cause allergic skin reaction. 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) |
|-------------------|-----------|--------------|---------------|
| Sodium Persulfate | 7775-27-1 | Present | Not Listed |

| Component | CAS No | CEPA Schedule I - Toxic Substances |
|-------------------|-----------|--------------------------------------|
| Sodium Persulfate | 7775-27-1 | Not listed |
| Component | | CEPA - 2010 Greenhouse Gases Subject |
| | | to Mandatory Reporting |
| Sodium Persulfate | 7775-27-1 | Not listed |

EU Classification

EU GHS - SV - CLP 1272/2008

| Component | CAS No | EU GHS - SV - CLP (1272/2008) |
|-------------------|-----------|-------------------------------|
| Sodium Persulfate | 7775-27-1 | |

EU - CLP (1272/2008)

R-phrase(s)

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed

R42/43 - May cause sensitization by inhalation and skin contact

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

S -phrase(s)

S17 - Keep away from combustible material

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty of water

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

S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest

S24/25 - Avoid contact with skin and eyes

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

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

| Component | CAS No | Concentration Limits: | Safety Phrases |
|-------------------|-----------|------------------------------|----------------|
| Sodium Persulfate | 7775-27-1 | No information | |

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

Indication of danger:

O - Oxidising. Xn - Harmful Xi - Irritant



Product code: S1394

16. OTHER INFORMATION

| Preparation Date: | 6/29/2015 |
|-------------------|---|
| Revision date | 11/26/2019 |
| 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