



SAFETY DATA SHEET

Preparation Date: 1/20/2017

Revision Date: 1/20/2017

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: C2206
Product Name: CHLOROFORM-D, 99.8 ATOM PERCENT D

Other means of identification

Synonyms: Deuteriochloroform; Trichlorodeuteromethane; Deuterotrichloromethane; Trichloromethane-d
CAS #: 865-49-6
RTECS # Not available
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 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Warning

Hazard statements

Harmful if swallowed
Causes skin irritation

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Causes serious eye irritation
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
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
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

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 advice/attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

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 %
Chloroform-d, 99.8 atom %	865-49-6	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.

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.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

Symptoms	Irritating to eyes and skin. Central nervous system effects. Drowsiness. Dizziness. Ataxia. Fatigue. Headache. Narcosis. May cause cardiovascular effects. May affect respiration. Causes digestive (gastrointestinal) tract irritation. Nausea. Vomiting. May affect the liver. It may affect the kidneys.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician:	Treat symptomatically.
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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.
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Unsuitable Extinguishing Media:	No information available.
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Specific hazards arising from the chemical

Hazardous Combustion Products:	Chloroform does not burn, but may decompose upon heating to produce the following if involved in a fire: carbon monoxide, carbon dioxide,, hydrogen chloride and chlorine.
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Specific hazards:	No information available.
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Special Protective Actions for Firefighters

Specific Methods:	No information available.
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Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
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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. Avoid contact with skin, eyes and clothing. 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. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Protect from light.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep containers tightly closed in a cool, well-ventilated place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Protect from light. Sensitive to light. Store in light-resistant containers. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents
Acids
Alkalis
Aluminum
Potassium t-butoxide
Alkali Metals
Lithium
Sodium
Potassium
Alkaline Earth metals
Magnesium sulfate

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
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Chloroform-d, 99.8 atom %	865-49-6	50 ppm Ceiling 240 mg/m ³ Ceiling	2 ppm STEL 9.78 mg/m ³ STEL	10 ppm TWA	None
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Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Chloroform-d, 99.8 atom %	865-49-6	10 ppm TWA 49 mg/m ³ TWA	2 ppm TWA	10 ppm TWA	5 ppm TWAEV 24.4 mg/m ³ TWAEV

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Chloroform-d, 99.8 atom %	865-49-6	2 ppm TWAmg/m ³ TWA	10 ppm TWA 50 mg/m ³ TWA 50 ppm STEL 225 mg/m ³ STEL

Appropriate engineering controls

Engineering measures to reduce exposure:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles
Skin and body protection:	apron. Long sleeved clothing. 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 and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Appearance: No information available.	Color: Colorless.
Odor: Pleasant. Etheric. Non-irritating.	Taste Sweet.	Formula: CDCl ₃
Molecular/Formula weight: 120.38	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not applicable	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): -64 to -63 °C/-83.26-81.4 °F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 61-62 °C/141.8-143.6 °F	Bulk density: No information available	Density (g/cm³): No information available

Specific gravity:

Product code: C2206

Product name: CHLOROFORM-D,
99.8 ATOM PERCENT D

1.492

pH:
No information available

Vapor pressure @ 20°C (kPa):
21.2-21.3

Evaporation rate:
No information available

Vapor density:
4.36

VOC content (g/L):
No information available

Odor threshold (ppm):
85

**Partition coefficient
(n-octanol/water):**
Log Pow = 1.97

Viscosity:
No information available

Miscibility:

Miscible with Carbon disulfide
Miscible with Carbon tetrachloride
Miscible with Benzene
Miscible with alcohol
Miscible with Acetone
Miscible with Petroleum Ether
Miscible with many organic solvents
Miscible with Ether

Solubility:

Slightly soluble in water
Soluble in Ether
Soluble in Benzene
Soluble in hot alcohol
Soluble in Acetone
Soluble in Carbon tetrachloride
Soluble in organic solvents
Soluble in Petroleum Ether
Soluble in Carbon Disulfide

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents
Reactive with acids
Reactive with alkalis
Reacts with alkali metals
Reacts with alkaline earth metals

Chloroform reacts violently with or may explode if it comes in contact with the following: Perchloric acid + Methanol; Sodium + Methanol; Sodium methylate + Methanol; Sodium hydroxide + Methanol; Acetone; Carbon tetrachloride; disilane; Nitrogen tetroxide; Sodium methylate; Sodium-Potassium alloy; Triisopropyl phosphine; 2-Nitrophenylacetyl chloride; Perchloric acid + Phosphorus pentoxide

Chloroform and acetone interact vigorously and exothermally in presence of solid potassium hydroxide or calcium hydroxide to form 1,1,1-trichloro-2-hydroxy-2-methylpropane

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Exposure to light. Incompatible materials.

Incompatible Materials:

- Oxidizing agents
- Acids
- Alkalis
- Aluminum
- Potassium t-butoxide
- Alkali Metals
- Lithium
- Sodium
- Potassium
- Alkaline Earth metals
- Magnesium sulfate

Hazardous decomposition products: Phosgene. Hydrogen chloride gas. Chlorine. Carbon dioxide. Carbon monoxide.

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:**

Inhalation. Ingestion.

Acute Toxicity**Component Information**

Chloroform-d, 99.8 atom %	
CAS-No.	865-49-6

LD50/oral/rat = No information available

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 LC50 information = For Chloroform (CAS no. 67-66-3): 695 mg/kg Oral LD50 Rat; 20000 mg/kg or >3980 mg/kg Dermal LD50 Rabbit; 47702 mg/m³ inhalation LC50 Rat 4hr.

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 695 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 353-1366 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = > 3980 mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = 47.7 mg/l (4-hr)

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = 17200 mg/m³ 2 h

6000 mg/m³ 6 h

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:

Causes skin irritation. Mildly to highly irritating. It may be absorbed through the skin.

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Eye Contact: Causes eye irritation. Moderately irritating to the eyes. Causes conjunctivitis. May cause reversible eye damage.

Inhalation Irritating to respiratory system. May cause nausea, vomiting. May cause salivation. May cause dry mouth, thirst. May cause dizziness and headache. Inhalation of high concentrations of vapor may cause anesthetic effects. May affect behavior/central nervous system (excitation, followed by central nervous system depression, nervousness, irritability, hallucinations, delirium, euphoria, apathy, ataxia, loss of judgement, disorientation, inebriation, fatigue, lassitude, mental dullness, weakness, narcosis, fainting sensation, unconsciousness (anesthesia), coma). It may affect the cardiovascular system (hypotension, cardiac arrhythmias, cardiac arrest). May affect respiration (respiratory depression). May affect respiration (anoxia, increase in rate and depth of respiration). May cause anorexia. It may affect the liver. May affect the kidneys. May produce a sensation of bodily warmth. May cause pupillary dilation with decreased reaction to light.

Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. It causes irritation or a burning sensation of the mouth and throat. May affect urinary system (kidneys). May affect liver. It may affect the blood (leukocytosis, fall in the plasma prothrombin level and an increase in time for the blood to clot).

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 inhalation may cause pneumoconiosis. Prolonged or repeated inhalation may cause dry mouth, thirst, gastroenteritis, nausea, vomiting, diarrhea, loss of appetite or anorexia, weight loss. Prolonged or repeated inhalation may affect behavior/central nervous system (headache, hallucinations, ataxia, loss of reflexes, psychotic behavior, dysarthria (motor speech disorder)), and cause degenerative changes of the brain. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the heart. Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or repeated ingestion may cause loss of appetite. Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Prolonged or repeated inhalation may affect the blood (changes in white blood cell count). Prolonged or repeated inhalation may affect the blood (change in clotting factors). Prolonged or repeated inhalation may affect the spleen. Prolonged or repeated inhalation may cause hyperglycemia. Prolonged or repeated inhalation may cause ketosis (ketone bodies formed in the blood when liver glycogen stores are depleted).

Sensitization: No information available.

Mutagenic Effects: May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects
Mutagenic effects in mammalian somatic cells
Animal experiments showed mutagenic effects

Carcinogenic effects: Suspected of causing cancer. Possibly carcinogenic to humans.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Chloroform-d, 99.8 atom %	865-49-6	Group 2B -	A3 Confirmed	Reasonably	Present (for	Not listed	Not listed

		Possibly Carcinogen to Humans (for Chloroform)	Animal Carcinogen with Unknown Relevance to Humans (for Chloroform)	anticipated to be a human carcinogen (for Chloroform)	Chloroform)		
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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

Suspected of damaging fertility or the unborn child

Reproductive Effects:

No information available

Developmental Effects:

May cause adverse developmental effects

Possible risk of harm to the unborn child

Teratogenic Effects:

May cause birth defects (teratogenic effects) based on animal test data

Specific Target Organ Toxicity

STOT - single exposure

Respiratory system. central nervous system.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Target Organs:

Central nervous system. Respiratory system. Kidneys. Liver. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

No data available.

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
Chloroform-d, 99.8 atom %	865-49-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:

UN1888

Product code: C2206

Product name: CHLOROFORM-D,
99.8 ATOM PERCENT D

Proper Shipping Name: Chloroform
Hazard Class: 6.1
Subsidiary Class No information available
Packing group: III
Emergency Response Guide Number 151
Marine Pollutant No data available
DOT RQ (lbs): 10 lbs./4.54 kg
Special Provisions IB3, N36, T7, TP2
Symbol(s): No information available
Description: UN1888, Chloroform, 6.1, III, Limited quantity

TDG (Canada)

UN-No: UN1888
Proper Shipping Name: Chloroform
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No Information available
Description: UN1888, Chloroform, 6.1, III, Limited quantity

ADR

UN-No: UN1888
Proper Shipping Name: Chloroform
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: UN1888, Chloroform, 6.1, III, Limited quantity

IMO / IMDG

UN-No: UN1888
Proper Shipping Name: Chloroform
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No information available
EMS: F-A
Description UN1888, Chloroform, 6.1, III, Limited quantity

RID

UN-No: UN1888
Proper Shipping Name: Chloroform
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN1888, Chloroform, 6.1, III, Limited quantity

ICAO

UN-No: UN1888
Proper Shipping Name: Chloroform
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN1888, Chloroform, 6.1, III

IATA

UN-No: UN1888
Proper Shipping Name: Chloroform
Hazard Class: 6.1

Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6A
Special Provisions No information available
Description: UN1888, Chloroform, 6.1, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Chloroform-d, 99.8 atom %	865-49-6	Not Listed	Not present	Present	Not present	Present	Present	Present 212-742-4

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Chloroform-d, 99.8 atom %	865-49-6	carcinogen (for Chloroform)	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
Chloroform-d, 99.8 atom %	865-49-6	10 lb./4.54 Final RQ (for chloroform)	10000 lb. TPQ (for chloroform)	10 lb. EPCRA RQ (for chloroform)	None	0.1% (for chloroform)

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
Chloroform-d, 99.8 atom %	865-49-6	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D1B Toxic materials
 D2A Very toxic materials
 D2B Toxic materials

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.

Inventory

Product code: C2206

Product name: CHLOROFORM-D,
99.8 ATOM PERCENT D

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Chloroform-d, 99.8 atom %	865-49-6	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Chloroform-d, 99.8 atom %	865-49-6	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Chloroform-d, 99.8 atom %	865-49-6	Not listed

EU Classification

R-phrases

R22 - Harmful if swallowed.

R38 - Irritating to skin.

R40 - Limited evidence of a carcinogenic effect

R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

S-phrases

S36 - Wear suitable protective clothing.

S37 - Wear suitable gloves.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Chloroform-d, 99.8 atom %	865-49-6		No information	

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

Indication of danger:

Xn - Harmful.

Xi - Irritant.

Xn



Xi



16. OTHER INFORMATION

Preparation Date: 1/20/2017
Revision Date: 1/20/2017
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