

SAFETY DATA SHEET

Preparation Date: No data available

Revision Date: 06/04/2015

Revision Number: G1

Product identifier

Product code: X1015
Product Name: M-XYLENE, REAGENT

Other means of identification

Synonyms: 1,3-Dimethylbenzene; 1,3-Xylene; Benzene, 1,3-dimethyl-; m-Dimethylbenzene; m-Methyltoluene; m-Xylol; 3-Xylene
CAS #: 108-38-3
RTECS # ZE2275000
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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Warning

Hazard statements

Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/./? /equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific measures (see .? on this label)
Specific treatment (see .? on this label)
In case of fire: Use CO₂, dry chemical, or foam to extinguish.
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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
If skin irritation occurs: Get medical advice/attention
Call a POISON CENTER or doctor/physician if you feel unwell

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

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 %	Trade Secret
m-Xylene 108-38-3	108-38-3	100	*

4. FIRST AID MEASURES

First aid measures

General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126).

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact:

Flush eye 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. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms

Causes eye irritation. Causes skin irritation. Irritating to respiratory system. Coughing. Dyspnea (Shortness of breath and difficulty breathing). May cause cyanosis. Central nervous system effects. Dizziness. Fatigue. Weakness. Narcosis. Seizures. Convulsions. Aspiration hazard if swallowed - can enter the lungs and cause damage. Aspiration into the lungs may cause chemical pneumonitis. Aspiration into the lungs may cause pulmonary edema. May cause nausea and vomiting. May affect eyes/vision. May cause metabolic acidosis.

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). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media:

Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products:

Carbon monoxide; Carbon dioxide

Specific hazards:

Flammable
May be ignited by heat, sparks or flames
Container explosion may occur under fire conditions or when heated
Vapor may travel considerable distance to source of ignition and flash back
Vapors may form explosive mixtures with air
Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks)
Fire may produce irritating, corrosive and/or toxic gases

Special Protective Actions for Firefighters

Specific Methods:

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

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. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

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. Use only non-sparking tools. 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. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. When using do not smoke. 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. Protect from moisture. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****National occupational exposure limits****United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
m-Xylene - 108-38-3	None	= 100 ppm TWA = 435 mg/m ³ TWA	= 150 ppm STEL	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec
m-Xylene - 108-38-3	= 100 ppm TWA = 434 mg/m ³ TWA	= 100 ppm TWA	100 ppm TWA	100 ppm TWAEV 434 mg/m ³ TWAEV 150 ppm STEV 651 mg/m ³ STEV

Australia and Mexico

Components	Australia	Mexico
m-Xylene 108-38-3	655 mg/m ³ STEL 150 ppm STEL 80 ppm TWA 350 mg/m ³ TWA	= 100 ppm TWA = 435 mg/m ³ TWA

Appropriate engineering controls**Engineering measures to reduce exposure:**

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

Individual protection measures, such as personal protective equipment**Personal Protective Equipment**

- Eye protection:** Goggles. Safety glasses with side-shields.
- Skin and body protection:** Chemical resistant 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 before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Appearance: No information available	Color: Clear. Colorless.
Odor: Aromatic. Sweetish.	Taste No information available	Molecular/Formula weight: 106.17
Formula: C8H10	Flash point (°C): No data available	Flashpoint (°C/°F): 25°C/77°F
Flash Point Tested according to: Closed cup	Lower Explosion Limit (%): 1.1	Upper Explosion Limit (%): 7
Autoignition Temperature (°C/°F): 527°C/980.6°F	pH: No information available	Melting point/range(°C/°F): -47.9°C/-54.2°F
Boiling point/range(°C/°F): 137-139°C/278.6°-282.2°F	Decomposition temperature(°C/°F): No information available	Bulk density: No information available
Specific gravity: 0.864	Vapor pressure @ 20°C (kPa): 1.1-1.2	Density (g/cm3): No information available
Evaporation rate: No information available	Vapor density: 3.7	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): 3.2	Viscosity: No information available
Miscibility: No information available	Solubility: Insoluble in cold water Insoluble in hot water Soluble in Acetone Soluble in diethyl ether	

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents
Reactive with acids

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: Oxidizing agents. Acids.

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: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Skin. Eyes. Inhalation.

Acute Toxicity

Component Information

m-Xylene - 108-38-3

LD50/oral/rat = 4988 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = 14100 µg/kg Dermal LD50 Rabbit

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = 5267 ppm/6H Inhalation LC50 Mouse

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 4988mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 14100µg/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 = No information available

LC50/Inhalation/mouse

VALUE-Vapor = 5267 ppm/6H

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:

Irritating to skin. Moderately irritating to the skin. It may be absorbed through the skin. If absorbed through skin it may cause systemic effects.

Eye Contact:

Causes eye irritation. Moderately irritating to the eyes. Causes conjunctivitis. May cause transient corneal injury. It may cause transient photophobia and disturbances of vision.

Inhalation

Exposure to vapor or mist causes eye irritation. Irritating to respiratory system. May cause dyspnea (difficulty breathing or shortness of breath). May cause respiratory arrest. Symptoms may include chest tightness, coughing. May cause chemical pneumonitis. May cause cyanosis. Inhalation of high concentrations of vapors may cause dizziness or suffocation. Inhalation of high concentrations of vapor may cause anesthetic effects. May cause vasodilation of the peripheral vessels with facial flushing/redness. May produce a sensation of bodily warmth. May affect the cardiovascular system (cardiac arrhythmias). May cause sweet taste in mouth. May cause salivation. May cause dehydration. May cause dry mouth, thirst. May cause dry and sore throat. May cause nausea, vomiting. May cause anorexia. It may affect the liver. May affect the kidneys. May cause metabolic acidosis. May cause hypokalemia, hypobicarbonatemia, and hypophosphatemia. May affect behavior/central nervous system (excitement). May affect behavior/central nervous system (CNS depression, fatigue, irritability, memory loss, seizures, tremor, incoordination, coma). May affect behavior/central nervous system (headache, apprehension, vertigo, confusion, drowsiness, lassitude, lightheadness). May affect behavior/central nervous system (slurred speech, difficulty in concentrating). May affect behavior/central nervous system (loss of consciousness, coma). May affect vision (blurred vision).

Ingestion

Causes digestive (gastrointestinal) tract irritation. Irritating to mouth, throat and stomach. May cause a burning sensation in the mouth, chest, and stomach. Causes gastrointestinal distress. Ingestion may cause nausea, vomiting, diarrhea. Aspiration hazard if swallowed. Aspiration may lead to pulmonary edema. Aspiration into the lungs can cause chemical pneumonitis. May affect the peripheral nervous system (flaccid paralysis without anesthesia (usually neuromuscular blockage)). May affect urinary system (kidneys). May affect liver. May cause metabolic acidosis. It may cause central nervous system depression.

Aspiration hazard

Aspiration hazard. May be fatal if swallowed and enters airways.

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

Prolonged skin contact may cause skin irritation.. Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Prolonged or repeated ingestion may cause loss of appetite. Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Prolonged or repeated inhalation may cause nausea. Chronic exposure may cause dry and sore throat. Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or repeated ingestion may affect the adrenal gland. Prolonged or repeated ingestion may affect the blood (changes in serum composition). Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the brain. Prolonged or repeated inhalation may cause loss of appetite. Prolonged or repeated inhalation may affect metabolism (weight loss). Prolonged or repeated inhalation may affect the peripheral nervous system (weakness, paresthesia - a tingling, prickling, pricking, burning sensation 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 cause central nervous system effects. Prolonged or repeated inhalation may affect the blood (changes in white blood cell count). Prolonged or repeated inhalation may affect the blood (changes in red blood cell count). Prolonged or repeated inhalation may cause anemia. Prolonged or repeated inhalation may affect the bone marrow (hyperplasia). Chronic exposure to Xylene may be ototoxic (affect hearing). Chronic exposure may cause ringing in the ears (tinnitus).

Sensitization:

No information available

Mutagenic Effects:

No information available

Carcinogenic effects: Not classifiable as to its carcinogenicity to humans.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
m-Xylene	A4 Not Classifiable as a Human Carcinogen	Monograph 71 [1999] Xylenes	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity Suspected of damaging fertility or the unborn child

Reproductive Effects: May cause adverse reproductive effects. Crosses the placenta in humans.
Developmental Effects: May cause adverse developmental effects based on animal data
Teratogenic Effects: May cause birth defects (teratogenic effects) based on animal test data
Showed teratogenic effects in animal experiments

Specific Target Organ Toxicity

STOT - single exposure respiratory system. central nervous system.
STOT - repeated exposure No information available
Target Organs: Liver. Kidneys. Central nervous system. Skin. Respiratory system. Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

m-Xylene - 108-38-3

Freshwater Algae Data: 4.9 mg/L EC50 Pseudokirchneriella subcapitata 72 h
Freshwater Fish Species Data: 14.3-18 mg/L LC50 Pimephales promelas 96 h flow-through 1
8.4 mg/L LC50 Oncorhynchus mykiss 96 h semi-static 1
12.9 mg/L LC50 Poecilia reticulata 96 h semi-static 1
Water Flea Data: 2.81 - 5.0 mg/L EC50 Daphnia magna 48 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	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
m-Xylene	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: None
ERG No: 130
Marine Pollutant: No data available
DOT RQ (lbs): No information available

TDG (Canada)

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

ADR

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-E
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: III
Classification Code: No information available
Description: No information available

14. TRANSPORT INFORMATION

ICAO

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA

UN-No: UN1307
Proper Shipping Name: Xylenes (Mixture)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 3L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>m-Xylene</i>	Present	Present KE-35428	Present	Present (3)-60 (3)-3	Present	Present	Present 203-576-3

U.S. Regulations

m-Xylene

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 2902
New Jersey (EHS) List: 2902 500 lb TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List: Present
Pennsylvania RTK - Special Hazardous Substances: Present
New York Release Reporting - List of Hazardous Substances:
 = 10 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:

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:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>m-Xylene</i>	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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 <i>de minimis</i>
<i>m-Xylene</i>	= 1000 lb final RQ = 454 kg final RQ	None	None	None	1.0 % de minimis concentration

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
m-Xylene	Not Applicable	10/04/1982 10/04/1992

Canada**WHMIS hazard class:**

B2 Flammable liquid
D2A Very toxic materials
D2B Toxic materials

m-Xylene

B2 D2B

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 -
m-Xylene	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
m-Xylene	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
m-Xylene	Not listed	Not listed

EU Classification**R-phrase(s)**

R10 - Flammable.
R38 - Irritating to skin.
R20/21 - Harmful by inhalation and in contact with skin.

S -phrase(s)

S2 - Keep out of the reach of children.
S25 - Avoid contact with eyes.

Components	Classification	Concentration Limits:	Safety Phrases
m-Xylene	R10 Xn; R20/21 Xi; R38	20%<=C: Xn; R20/21-38 12.5%<=C<20%: Xn; R20/21	S2 S25

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

Indication of danger:

Flammable

Xn - Harmful.

Xi - Irritant.

**16. OTHER INFORMATION****Revision Date:**

06/04/2015

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