



SAFETY DATA SHEET

Preparation Date: 5/9/2014 Revision Date: 4/26/2018 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: E1310

Product Name: ETHER, ANHYDROUS

Other means of identification

Synonyms: Diethyl ether

Diethyl oxide Ethyl oxide

Éther éthylique (French)

Ethoxyethane Ethyl ether

Oxyde d'ethyle (French)

CAS #: 60-29-7
RTECS # KI5775000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent.

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 numberChemtrec 1-800-424-9300Contact 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 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 1

Label elements

Danger

Hazard statements

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

Extremely flammable liquid and vapor



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Toxic to aquatic life with long lasting effects

Toxic to aquatic life

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

Precautionary Statements - Response

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 skin irritation occurs: 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor/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/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

	Components	CAS-No.	Weight %
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Ethyl Ether, w/o stabilizer	60-29-7	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

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

shoes. Get medical attention. If 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 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 Irritating to eyes, respiratory system and skin

Central nervous system effects

Dizziness Drowsiness Fatigue

May cause headache

Ingestion may cause vomiting and nausea

May cause cardiovascular effects

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: Extremely 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

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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

Special Protective Equipment 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.

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 product from entering

drains. Do not let this chemical enter the environment. 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 containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth).

Methods for cleaning upUse 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. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. 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:

Sensitive to light. Store in light-resistant containers. Air sensitive. Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep at temperatures below 24

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°C. 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

Halogens

Sulfur

Sulfur compounds

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Ethyl Ether, w/o	60-29-7	400 ppm TWA	None	500 ppm STEL	None
stabilizer		1200 mg/m³ TWA		400 ppm TWA	

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Ethyl Ether, w/o stabilizer	60-29-7	400 ppm TWA 1210 mg/m³ TWA 500 ppm STEL 1520 mg/m³ STEL	400 ppm TWA 500 ppm STEL	500 ppm STEL	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Ethyl Ether, w/o stabilizer	60-29-7	500 ppm STEL	400 ppm TWA
		1520 mg/m ³ STEL	1200 mg/m ³ TWA
		400 ppm TWA	500 ppm STEL
		1210 mg/m ³ TWA	1500 mg/m ³ STEL

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

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: Appearance: Color: No information available. Liquid Colorless.

Odor: **Taste** Formula: Ethereal. Sweetish. Pungent. Burning. Sweet. C4-H10-O

Molecular/Formula weight: Flammability: Flash point (°C):

74.12 No information available -45

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature (°C/°F):

-45 °C/ -49 °F 160-180 °C/320-356 °F Closed cup -40 °C/-40 °F Open cup

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

1.9% 36-48% -116 °C; -177 °F

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

No information available 34.6 °C/94.3 °F at 760 mm Hg No information available

17.9 °C/64.2 °F at 400 mm Hg 2.2 °C/36 °F at 200 mm Hg

Density (g/cm3): Specific gravity: :Ha

No information available 0.7134-0.7147 @ 20 °C No information available

Vapor pressure @ 20°C (kPa): **Evaporation rate:** Vapor density:

No information available 58.9 2.55

VOC content (g/L): Odor threshold (ppm): Partition coefficient No information available 713-714 (n-octanol/water):

No information available

Miscibility: Viscosity:

Miscible with many organic solvents Soluble in Acetone No information available Very soluble in Ethanol

Miscible with Benzene Miscible with Chloroform Miscible with oils

Miscible with Petroleum Ether

Miscible with lower aliphatic alcohols

10. STABILITY AND REACTIVITY

Solubility:

Soluble in Benzene Slightly soluble in water

Reactivity

Reactive with oxidizing agents

Reactive with acids

Chemical stability

Stable under recommended storage conditions. Stability:

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to light. Exposure to moisture. Exposure to moist

air. Exposure to air. Incompatible materials.

Incompatible Materials: Oxidizing agents

> Acids Halogens

Sulfur

Sulfur compounds

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. Inhalation. Eyes.

Acute Toxicity

Component Information

Ethyl Ether, w/o stabilizer

CAS-No.

60-29-7

LD50/oral/rat = 1215 mg/kg Oral LD50 Rat

LD50/oral/mouse = 1760 mg/kg

LD50/dermal/rabbit = >20 mL/kg Dermal LD50 Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = 32000 ppm 4 hr

LC50/inhalation/mouse = 130000 mg/m³ 3 h

31000 ppm 30M

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 1215 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 1760 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = > 20 ml/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = 32000 ppm (4-hr)

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

 $VALUE-Vapor = 130000 \text{ mg/m}^3 4 \text{ hr}$

VALUE - Gas = 31000 ppm 30 M

VALUE - Dust/Mist = No information available

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Symptoms

Skin Contact: Causes skin irritation. Moderate skin irritation. It may be absorbed through the

skin. If absorbed through skin it may cause systemic effects.

Eye Contact: Causes eye irritation. May cause conjunctivitis.

Inhalation Irritating to respiratory system. May cause conjunctival irritation. May affect

respiration (respiratory depression). Symptoms may include coughing and bronchodilation. May cause salivation. May cause loss of appetite. May affect cardiovascular system (bradycardia, tachycardia, cardiac arrhythmias). Inhalation of high concentrations of vapors may cause dizziness or suffocation. Inhalation of high concentrations of vapor may cause anesthetic effects. May cause central nervous system effects, central nervous system depression. It may affect behavior/central nervous system (convulsions, excitement). It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). It may affect behavior/central nervous system (headache, euphoria, fatigue, slurred

speech).

Ingestion Harmful if swallowed. May cause digestive (gastointestinal) tract irritation. It may

cause abdominal (stomach) distention. Ingestion may cause nausea, vomiting. May cause central nervous system effects (affect behavior). Aspiration hazard if swallowed. Aspiration into the lungs can cause chemical pneumonitis. May cause

loss of appetite.

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 and/or ingestion may cause central nervous

system effects (affect behavior). Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated inhalation may affect metabolism (weight loss). Prolonged or repeated ingestion may affect the liver. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin. Prolonged or repeated

inhalation may affect the kidneys.

Sensitization: No information available.

Mutagenic Effects: For Ethyl Ether:

May affect genetic material

Animal experiments showed mutagenic effects

Experiments with bacteria have shown mutagenic effects

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ethyl Ether, w/o stabilizer	60-29-7	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)

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Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

Specific Target Organ Toxicity

STOT - single exposure Respiratory system. central nervous system.

STOT - repeated exposure Target Organs:No information available.
Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Ethyl Ether, w/o stabilizer - 60-29-7

Freshwater Fish Species Data: 2560 mg/L LC50 Pimephales promelas 96 h flow-through 1 10000 mg/L LC50

Lepomis macrochirus 96 h static 1

Water Flea Data: 165 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	RCRA - K Series	RCRA - P Series	RCRA - U Series
		Wastes	Wastes	Wastes	Wastes
Ethyl Ether, w/o stabilizer	60-29-7	None	None	None	U117 ignitable waste

14. TRANSPORT INFORMATION

DOT

UN-No: UN1155
Proper Shipping Name: Diethyl ether

Hazard Class: 3

Subsidiary Class No information available

Packing group:

Emergency Response Guide No information available

Number

Marine Pollutant No data available DOT RQ (lbs): 100 lbs/45.4 kg

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Special ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: UN1155
Proper Shipping Name: Diethyl ether

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine PollutantNo Information availableDescription:No information available

ADR

UN-No: UN1155

Proper Shipping Name: Diethyl ether (Ethyl ether)

Hazard Class: 3
Packing Group: 1

Subsidiary Risk: No information available

IMO / IMDG

UN-No: UN1155

Proper Shipping Name: Diethyl ether (Ethyl ether)

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-E

RID

UN-No: UN1155

Proper Shipping Name: Diethyl ether (Ethyl ether)

Hazard Class: 3
Subsidiary Risk: 3
Packing Group: 1

ICAO

UN-No: UN1155
Proper Shipping Name: Diethyl ether

Hazard Class:

Subsidiary Risk: No information available

Packing Group:

IATA

UN-No: UN1155
Proper Shipping Name: Diethyl ether

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: I ERG Code: 3AH

Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Components C	AS-No.	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
				(PICCS)			(AICS)	

Ethyl Ether, w/o	60-29-7	PresentACTIV	Present	Present	Present	Present	Present	Present
stabilizer		E	KE-27690		(2)-365,(2)-36			200-467-2
					1			

U.S. Regulations

Ethyl Ether, w/o stabilizer

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 0701

New Jersey (EHS) List: 0701 500 lb TPQ

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

New Jersey TCPA - EHS: 10000lbTQ Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present

Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

100 lb RQ

Louisana Reportable Quantity List for Pollutants: 100lbfinal RQ

45.4kgfinal RQ

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	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Ethyl Ether, w/o stabilizer	60-29-7	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
Ethyl Ether, w/o stabilizer	60-29-7	100 lb final RQ 45.4 kg final RQ	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ethyl Ether, w/o stabilizer	60-29-7	Not Applicable	01/26/199406/30/1998

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Ethyl Ether, w/o stabilizer 60-29-7 (100) WHMIS 2015 Hazard Classification

Flammable liquids - Category 1: H224 Extremely flammable liquid and vapour.; Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Specific target organ toxicity - Single exposure - Category 3: H336 May cause drowsiness or dizziness.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous

WHMIS 1988 Hazard Class

B2 Flammable liquid

Components

WHMIS 1988

Ethyl Ether, w/o stabilizer

B2

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 -
Ethyl Ether, w/o stabilizer	1 %

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)	
Ethyl Ether, w/o stabilizer	60-29-7	Present	Not Listed	

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Ethyl Ether, w/o stabilizer	60-29-7	Not listed
Components		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
		to Manuatory Reporting
Ethyl Ether, w/o stabilizer	60-29-7	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Ethyl Ether, w/o stabilizer	60-29-7	Flammable liquids - Flam. Liq. 1: H224
		Extremely flammable liquid and
		vapour.; Acute toxicity - Oral - Acute
		Tox. 4: H302 Harmful if swallowed.
		(Minimum classification); Specific
		target organ toxicity - Single exposure
		- STOT SE 3: H336 May cause
		drowsiness or dizziness.;
		Supplemental Hazards: EUH019 May
		form explosive peroxides.;
		Supplemental Hazards: EUH066
		Repeated exposure may cause skin
		dryness or cracking.603-022-00-4

EU - CLP (1272/2008)

R-phrase(s)

R12 - Extremely flammable.

R19 - May form explosive peroxides.

R22 - Harmful if swallowed.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapors may cause drowsiness and diziness.

S -phrase(s)

S 9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.

S29 - Do not empty into drains.

S33 - Take precautionary measures against static discharges.

Components		Classification	Concentration	Safety Phrases
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		Limits:	
Ethyl Ether, w/o stabilizer	F+; R12 R19 Xn; R22 R66 R67	No information	

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

Indication of danger:

F+ - Extremely flammable.

Xn - Harmful.





16. OTHER INFORMATION

Preparation Date: 5/9/2014
Revision Date: 4/26/2018
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