spectrum[®]



SAFETY DATA SHEET

Preparation Date: 4/16/2018	Revision Date: 4/16/2018	Revision Number: G1
	1. IDENTIFICATION	
Product identifier		
Product code:	D1110	
Product Name:	DIPROPYLENE GLYCOL METHYL ETHER	
Other means of identification		
Synonyms:	1,4-Dimethyl-3,6-dioxa-1-heptanol 1-(1-Methyl-2-methoxyethoxy)-2-propanol 1-(2-Methoxyisopropoxy)-2-propanol Methyl dipropanol Oxybispropanol methyl ether	
CAS #:	34590-94-8	
RTECS # CI#:	JM1575000 Not available	
Recommended use of the che	emical and restrictions on use	
Recommended use: Uses advised against	No information available. No information available	
<u>Supplier:</u>	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At: Emergency telephone number Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 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)

Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 4

Label elements

Warning

Hazard statements May cause respiratory irritation Combustible liquid



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves Wear eye/face protection Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep cool

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam to extinguish. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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 %
Dipropylene Glycol Methyl Ether	34590-94-8	100
	4. FIRST AID MEASURES	
First aid measures		
h	ational Capital Poison Center in the Uni ave a poison emergency and need to ta 800-222-1222.	ted States can provide assistance if you Ik to a poison specialist. Call
	ash off immediately with soap and plenty of ones. Get medical attention if irritation develo	water removing all contaminated clothing and ops.
Eye Contact: FI	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs.	
	ove to fresh air. If not breathing, give artificiary gen. Obtain medical attention.	al respiration. If breathing is difficult, give
0	o not induce vomiting without medical advice acoustic of the second second second second second second second s	0,0,
Mast important symptoms and offects		,

Most important symptoms and effects, both acute and delayed

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	GLYCOL METHYL ETHER

Symptoms May cause eye/skin irritation Irritating to respiratory system May cause headache Lightheadedness Dizziness Fainting 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: Dry chemical. Carbon dioxide (CO2). Water spray mist or foam. High volume water jet. Do not use a solid (straight) water Unsuitable Extinguishing Media: stream as it may scatter and spread fire. Specific hazards arising from the chemical **Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide. Specific hazards: Combustible material. May be ignited by heat, sparks or flames. 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). Container explosion may occur under fire conditions or when heated. **Special Protective Actions for Firefighters** Water mist may be used to cool closed containers. For **Specific Methods:** 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:	Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Remove all sources of ignition.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.	
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. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. 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. Keep in a well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents Strong acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Dipropylene Glycol Methyl Ether	34590-94-8	100 ppm TWA 600 mg/m³ TWA	100 ppm TWA 600 mg/m ³ TWA 150 ppm STEL 900 mg/m ³ STEL	150 ppm STEL 100 ppm TWA	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Dipropylene Glycol Methyl Ether	34590-94-8	100 ppm TWA 606 mg/m ³ TWA 150 ppm STEL 909 mg/m ³ STEL	100 ppm TWA 150 ppm STEL	150 ppm STEL	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Dipropylene Glycol Methyl Ether	34590-94-8	50 ppm TWA 308 mg/m³ TWA	100 ppm TWA 60 mg/m³ TWA 150 ppm STEL 900 mg/m³ 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:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
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:	Appearance:	Color:	
Liquid	No information available.	Colorless.	
Odor:	Taste	Formula:	
Ether-like.	Bitter.	C7H16O3	
Molecular/Formula weight:	Flammability:	Flashpoint (°C/°F):	
148.20	Combustible	85°C/185°F	
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):	
Closed cup	No information available	1.1%	
Upper Explosion Limit (%):	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):	
3%	Freezing point = -80 °C/-112 °F	No information available	
Boiling point/range(°C/°F):	Bulk density:	Density (g/cm3):	
190 °C/374 °F	No information available	No information available	
Product code: D1110	Product name: DIPROPYLENE GLYCOL METHYL ETHER	5 / 12	

Specific gravity: 0.95

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: Miscible with water Miscible with Ethanol Miscible with Ether Miscible with Acetone Miscible with Methanol Miscible with Carbon tetrachloride Miscible with Benzene **pH:** No information available

Vapor density: 5.11

Partition coefficient (n-octanol/water): 0.803

Solubility: Soluble in Water Soluble in Ether Soluble in Acetone Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

<u>Reactivity</u> No information available

Chemical stability

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	_Hazardous polymerization does not occur
Conditions to avoid:	Stable at normal conditions.
Incompatible Materials:	Oxidizing agents Strong acids
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.

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: Eyes. Inhalation. Ingestion.

Acute Toxicity

Component Information

Dipropylene Glycol Methyl Ether	
CAS-No.	34590-94-8

LD50/oral/rat = 5.35 g/kg Oral LD50 Rat (LOLI); 5.4-5.5 ml/kg (RTECS) LD50/oral/mouse = No information available LD50/dermal/rabbit = 9500 mg/kg Dermal LD50Rabbit LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available							
Product Information							
LD50/oral/rat = VALUE- Acute Tox Ora	al = 5350 m	ng/kg					
LD50/oral/mouse = Value - Acute Tox Ora	I = No inform	nation availab	ble				
LD50/dermal/rabbit VALUE-Acute Tox Der	mal = 9500	mg/kg					
LD50/dermal/rat VALUE -Acute Tox De	r mal = No ir	nformation ava	ailable				
LC50/inhalation/rat VALUE-Vapor = No infor VALUE-Gas = No infor VALUE-Dust/Mist = No	mation avail	able					
LC50/Inhalation/mouse VALUE-Vapor = No info VALUE - Gas = No info VALUE - Dust/Mist = N	ormation ava	ilable					
Symptoms_							
Skin Contact:	Ν	May cause sk	in irritation.				
Eye Contact:	Ν	May cause ey	e irritation. M	ay cause mir	or, transient	eye irritation.	
Inhalation		rritating to res dizziness, ligl					s system
Ingestion	ŀ	Health injuries	are not know	wn or expecte	ed under norn	nal use.	
Aspiration hazard	٦	No informatior	n available.				
Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Chronic Toxicity Chronic exposure may affect the liver.							
Sensitization:	٦	No information available.					
Mutagenic Effects:	ects: No information available						
Carcinogenic effects:	١	Not considere	d carcinogen	ic.			
Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic	Australia - Prohibited Carcinogenic

						Substances	Substances
Dipropylene Glycol Methyl Ether	34590-94-8	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:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	Respiratory Tract.
STOT - repeated exposure	No information available.
Target Organs:	Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	Aquatic environment.
Dipropylene Glycol Methyl Ether - Freshwater Fish Species Data: Water Flea Data:	
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
Dipropylene Glycol Methyl Ether	34590-94-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated **Proper Shipping Name:** No information available Hazard Class: No information available Subsidiary Class No information available No information available Packing group: Emergency Response Guide No information available Number Marine Pollutant No data available No information available DOT RQ (lbs): **Special Provisions** No Information available Symbol(s): No information available **Description:** No information available TDG (Canada) UN-No: Not Regulated No information available **Proper Shipping Name:** Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available **Marine Pollutant** No Information available **Description:** No information available ADR UN-No: Not Regulated No information available **Proper Shipping Name:** Hazard Class: No information available Packing Group: No information available Subsidiary Risk: No information available IMO / IMDG UN-No: Not Regulated No information available **Proper Shipping Name:** Hazard Class: No information available Subsidiary Risk: No information available No information available Packing Group: Marine Pollutant No information available Not Regulated UN-No: No information available **Proper Shipping Name:** Hazard Class: No information available No information available Subsidiary Risk: Packing Group: No information available **ICAO** Not Regulated UN-No: No information available **Proper Shipping Name:** Hazard Class: No information available No information available Subsidiary Risk: Packing Group: No information available ΙΑΤΑ UN-No: Not Regulated No information available **Proper Shipping Name:** Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available

Product code: D1110

Special Provisions

ERG Code:

RID

Product name: DIPROPYLENE GLYCOL METHYL ETHER

No information available No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Dipropylene Glycol Methyl Ether	34590-94-8	PresentACTIV E	Present KE-12230	Present	Present (2)-426,(7)-97	Present	Present	Present 252-104-2

U.S. Regulations

Dipropylene Glycol Methyl Ether Massachusetts RTK: Present New Jersey RTK Hazardous Substance List: 0804 Pennsylvania RTK: Present Minnesota - Hazardous Substance List: Present 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:
Dipropylene Glycol Methyl Ether	34590-94-8	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
Dipropylene Glycol Methyl Ether	34590-94-8	None	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
Dipropylene Glycol Methyl Ether	34590-94-8	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Dipropylene Glycol Methyl Ether 34590-94-8 (100) WHMIS 2015 Hazard Classification Flammable liquids - Category 4: H227 Combustible liquid.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

B3 Combustible liquid

Components	WHMIS 1988
Dipropylene Glycol Methyl Ether	B3

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 -
Dipropylene Glycol Methyl Ether	1 %

Inventory

Components C	CAS-No.	Canada (DSL)	Canada (NDSL)
Dipropylene Glycol Methyl Ether 34	34590-94-8	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Dipropylene Glycol Methyl Ether	34590-94-8	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Dipropylene Glycol Methyl Ether	34590-94-8	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)	
Dipropylene Glycol Methyl Ether	34590-94-8	No information	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	 Concentration Limits:	Safety Phrases
Dipropylene Glycol Methyl Ether	34590-94-8	No information	

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

Indication of danger:

not determined

16. OTHER INFORMATION

Preparation Date: Revision Date: Prepared by:	4/16/2018 4/16/2018 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		
Product code: D1110	Product name: DIPROPYLENE GLYCOL METHYL ETHER	11 / 12	

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End of Safety Data Sheet