SAFETY DATA SHEET	lyondellbasell		
Glycol Ether DPM	Gen. Variant: SDS US GHS		
Version 1.1 Revision Dat	e 09/05/2014 Print Date 06/30/2015 SDS No.: BE640		
SECTION 1. PRODUCT AND CC	MPANY IDENTIFICATION		
Product name CAS Number: Chemical characterization Chemical Name Synonyms Use of the Substance/Mixture	 Glycol Ether DPM 34590-94-8 Propylene Glycol Ethers Dipropylene Glycol Monomethyl Ether DPM, Dipropylene Glycol Methyl Ether, DPGME Solvent 		
Company	: Lyondell Chemical Company LyondellBasell Tower, Suite 300 1221 McKinney St. P.O. Box 2583 Houston Texas 77252-2583		
Telephone	: Customer Service 888 777-0232 Product Safety 800 700-0946		
Emergency telephone	: CHEMTREC USA 800-424-9300 LYONDELL 800-245-4532		
E-mail address	E-mail address product.safety@lyondellbasell.com		
SECTION 2. HAZARDS IDENTIF	ICATION		
GHS Classification			
Flammable liquids Specific target organ syste	Category 4 emic toxicity - single exposure Category 3		
GHS Classification Scale (1= severe hazard; 4= slight hazard)			
Label elements			
Hazard symbols :			
Signal Word	: Warning		
Hazard Statements	: H227 Combustible liquid. H335 May cause respiratory irritation.		
Precautionary Statements	: Prevention P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P271 Use only outdoors or in a well-ventilated area.		
	Response P312 Call a POISON CENTER or doctor/ physician if you		
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	feel unwell. Storage P403 + P233 Store in tightly closed. P405 Store locked up	a well-ventilated place	. Keep container
Other hazards	ilahle		
. Composition/information on ingr	edients		
ubstances			
Chemical nature :	Substance		
Ingredients			
Chemical Name	CAS-No. EC-No.	<u>Weight %</u>	Component Type
Dipropylene Glycol Monomethyl Ether	34590-94-8	> 99.0 %	A
Key: (A) Substance			
ECTION 4. FIRST AID MEASURES			
First aid procedures			
General advice :	Take proper precaution before attempting resc information refer to the this SDS. Consult a physician/do Show this material safe attendance.	ns to ensure your own h ue and providing first a Emergency Overview ctor if necessary. ety data sheet to the do	nealth and safety id. For specific in Section 2 of octor in
If inhaled :	Remove to fresh air. Keep patient warm and Give oxygen or artificia Obtain emergency med Prompt action is essen	d at rest. I respiration as needec dical attention. tial.	l.
In case of skin contact :	Remove contaminated Wash skin thoroughly v Flush with lukewarm w If sticky, use waterless Seek medical attention 2 / 15	clothing as needed. with mild soap and wate ater for 15 minutes. cleaner first. if discomfort persists.	ər.
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In case of eye contact	 Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists, consult a specialist.
If swallowed	 This material may be a slight health hazard if ingested in large quantities. If large quantity swallowed, give lukewarm water (pint/ 1/2 litre) if victim completely conscious/alert. Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.
Notes to physician	
Symptoms	: High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).
Treatment	: Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
SECTION 5. FIRE-FIGHTING MEA	SURES
Flammable properties	
Flash point	: 167 °F (75 °C) at 1,013 hPa (760 mm Hg)
Autoignition temperature	: 403.7 °F (206.5 °C) at 1,013 hPa (760 mm Hg)
Lower explosion limit	: 1.1 vol%
Upper explosion limit	: 14 vol%
Flammability (solid, gas)	: Not applicable
Fire fighting	
Suitable extinguishing media	: SMALL FIRE: Use dry chemical, CO2, water spray or regular foam. LARGE FIRE: Use water spray, water fog or regular foam. Do not use straight streams.
Unsuitable extinguishing	: Do not use solid water stream.
Further information	: Cool containers with flooding quantities of water until well after fire is out.
Protective equipment and pr	recautions for firefighters
Specific hazards during fire	: Heat from fire can generate flammable vapor.
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Glycol Ether DPM	Gen. Variant: SDS_US_GHS		
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fighting	 When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Flammable vapors may be heavier than air and travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Cool containers with flooding quantities of water until well after fire is out. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Move containers from fire area if it can be done without risk. 		
Special protective equipment for fire-fighters	 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear. Structural firefighter's protective clothing will only provide limited protection. 		
SECTION 6. ACCIDENTAL RELEA	SE MEASURES		
Personal precautions	 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Eliminate all sources of ignition. Clean-up to be performed only by trained and properly equipped personnel. 		
Methods for containment / Methods for cleaning up	 Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. 		
Additional advice	 Keep non-involved personnel away from the area of spillage. See section 8 for additional PPE information. See section 13 for disposal information. 		
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Glycol EtherDPMVersion 1.1Revision Date 09/05/2014

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Handling	
Advice on safe handling	 Keep container tightly closed when not in use. The potential for peroxide formation is enhanced when this solvent is used in processes such as distillation. Use only non-sparking tools. Properly ground containers before beginning transfer. When transferring propylene glycol ethers with flash points or below 60 °C (140 °F) into fixed site vessels, the vessel should be purged and inerted prior to transfer. Propylene glycol ethers may be transferred into air atmospheres if the temperature of the product and the ambient temperature within the shipping container are both least 16.7 °C (30 °F) less than the product's flash point. Af loading, nitrogen blanketing is required if the contents of th transportation container could exceed a temperature of 16. °C (30 °F) less than the product flash point during any subsequent transportation activities. If the product flash point is less than 16.7 °C (30 °F) above either the ambient temperature of the transportation container should be purged and inerted with nitrogen prior to loading and nitrogen blanketed after loading. Handle empty containers with care. Flammable/combustible residue remains after emptying. The purging of all empty shipping containers, regardless of flashpoint, is recommended when received with air atmospheres. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Use adequate personal protective equipment. Observe precautions pertaining to confined space entry.
Storage	
Requirements for storage areas and containers	 Store only in tightly closed, properly vented containers awa from heat, sparks, open flame and strong oxidizing agents. Storage under nitrogen atmosphere is recommended to minimize potential for moisture condensation in the vapor space, and the formation of peroxides. Store in properly lined steel/stainless steel to avoid slight discoloration from mild steel/copper. Aluminum (5000 series alloys - U.S. Aluminum Association Standard) showed no corrosion after 30 days contact with Acetate, DPM, TPM, PTB, or PM at 71°C (160°F). Some plastics/rubbers are attacked by Glycol Ethers/Ether Esters. This product will absorb water if exposed to air.
Advice on common storage	: Carbon steel Store in properly lined steel/stainless steel to avoid slight discoloration from mild steel/copper.

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Othersdate		Some plas Esters.	stics/rubbers are	attacked by Glycol	Ethers/Ether
Other data	:	Stable und	der recommende	d storage conditions	5.
8. Exposure controls	/personal prote	ection			
Control parameters					
Ingredients with	workplace con	trol param	eters		
Occupational Ex	posure Limits				
Ingredients	CAS-No.	Туре	Limit Value	Basis Revision Date	Additional Information
Dipropylene Glycol Monomethyl Ether	34590-94-8	STEL	150 ppm	US (ACGIH) 2012	
Dipropylene Glycol Monomethyl Ether	34590-94-8	TWA	100 ppm	US (ACGIH) 2012	
Dipropylene Glycol Monomethyl Ether	34590-94-8	IDLH	600 ppm	NIOSH September 2007	
Dipropylene Glycol Monomethyl Ether	34590-94-8	TWA	100 ppm 600 mg/m3	US (OSHA) June 23, 2006	
Consult local authoritie	es for acceptable	e exposure	limits.		·

Exposure controls

Engineering measures

Local exhaust in addition to general room ventilation may be required to meet exposure limit(s).

Personal protective equipment

Respiratory protection	 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If exposure can exceed the occupational exposure limit(s), use approved respiratory protection equipment.
Hand protection	: Wear chemical resistant gloves such as: Neoprene.
Eye and face protection	: Use splash goggles when eye contact due to splashing or spraying liquid is possible.
Skin and body protection	 Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. Use PPE that is chemical resistant to the product and prevents skin contact.
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Hygiene measures	: Emergency eye wash fountains and safety showers should be
	available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse. Use care in walking on spilled material.
Protective measures	: Wear suitable protective equipment.
SECTION 9. PHYSICAL AND CHE	EMICAL PROPERTIES
Appearance	· liquid
Filysical state	. Ilquid
Color	: Clear, colorless.
Odor	: Ether-like odor.
Safety data	
Flash point	: 167 °F (75 °C) at 1,013 hPa (760 mm Hg)
Lower explosion limit	: 1.1 vol%
Upper explosion limit	: 14 vol%
Flammability (solid, gas)	: Not applicable
Oxidizing properties	: Not considered an oxidizing agent.
Autoignition temperature	: 403.7 °F (206.5 °C) at 1,013 hPa (760 mm Hg)
Molecular weight	: 148.2 g/mol
Decomposition temperature	: not determined
рН	: No Data Available.
Melting point/freezing point	: -117 °F (-83 °C) at 1,013 hPa (760 mm Hg)
Boiling point/boiling range	: 373.3 °F (189.6 °C) at 1,013 hPa (760 mm Hg)
Vapor pressure	: ~ 0.37 hPa (0.28 mm Hg)
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	at 68 °E (20 °C)
Donaitu	$a_1 \ b_2 \ r(20 \ c)$
Density	at 68 °F (20 °C)
Water solubility	: at 77 °F (25 °C) completely miscible
Partition coefficient: n- octanol/water	: log Pow: 0.004 at 77 °F (25 °C)
Viscosity, dynamic	: 4.000 mPa.s at 77 °F (25 °C) (Brookfield).
Viscosity, kinematic	: 4.55 mm2/s at 68 °F (20 °C) (static)
Relative vapor density	: ~5.1 at 61 - 90 °F (16 - 32 °C) (Air = 1.0)
Evaporation rate	: 0.02 (butyl acetate = 1)
Explosive properties	: Not explosive
Remarks - Other information	: Hygroscopic.
SECTION 10. STABILITY AND RI	EACTIVITY
Reactivity	: Will not occur.
Chemical stability	: Stable under recommended storage conditions.
Conditions to avoid	 Extended contact with air or oxygen. The potential for peroxide formation is enhanced when this solvent is used in processes such as distillation. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Ignition may occur at temperatures below those published in the literature as autoignition or ignition temperatures.
Materials to avoid	: Air or oxygen. Moisture and humidity. Strong oxidizing agents. May react with oxygen to form peroxides.
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Thermal decomposition	: Carbon Monoxide and other toxic vapors.
Hazardous reactions	: Will not occur.
SECTION 11. TOXICOLOGICAL	INFORMATION
Product Summary	: The below given information is based on the assessment of the product including impurities.
Acute toxicity	
Acute oral toxicity	: Based on acute toxicity values, not classified. Ingestion of very large amounts may cause CNS depression, respiratory failure, and death in cases of severe over- exposure.
	: LD50: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	: Based on acute toxicity values, not classified. May cause mild CNS depression. Exposure to vapor may cause irritation of the eyes, nose, or throat.
	: LC50: > 275 ppm Exposure time: 7 HOURS Species: Rat
Acute dermal toxicity	: Based on acute toxicity values, not classified.
	: LD50: > 9,500 mg/kg Species: Rat
Skin corrosion/irritation	: Based on skin irritation values, not classified.
Serious eye damage/eye irritation	: Based on eye irritation values, not classified.
Respiratory or skin sensitization	: Respiratory sensitization no data available No study available.
	: Skin sensitization no data available No adverse effect observed.
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Glycol Ether DPM	09/05/201/	Print Date 06/30/20	Gen. Variant: SDS_US_GHS
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Chronic toxicity			
Carcinogenicity	: Not classifie No adverse	ed effect observed.	
Germ cell mutagenicity	: Not classifie No adverse	ed effect observed.	
Reproductive toxicity			
Effects on fertility / Effects on or via lactation	: Not classifie No adverse	ed effect observed.	
Effects on Development	: Not classifie No adverse	ed effect observed.	
Target Organ Systemic Toxicant - Single exposure	: Classified		
	: May cause	respiratory irritation.	
Target Organ Systemic Toxicant - Repeated exposure	: Based on re	epeated exposure to	cicity values, not classified.
Aspiration hazard	: Based on physico-chemical values or lack of human evidence, not classified.		
12. ECOLOGICAL INFORMATION			
Ecotoxicology Assessment			
Acute aquatic toxicity	: Based on a	cute aquatic toxicity	values, not classified.
Chronic aquatic toxicity	: Not classifie toxicity.	ed, based on readily l	biodegradability and low acute
Toxicity to fish	: Acute toxici	ty to fish is low.	
Toxicity to daphnia and other aquatic invertebrates	: Acute toxici low.	ty to freshwater and	marine invertebrates is very
Toxicity to algae	: Acute toxici	ty to aquatic plants v	ery low.
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Toxicity to bacteria	: Low toxicity to sewage microbes.		
Toxicity to fish (Chronic toxicity)	: no data available		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Low chronic toxicity to aquatic invertebrates.		
Persistence and degradability			
Biodegradability	: 76 - 92 % Rapidly degradable. (After 28 days in a ready biodegradability test)		
Bioaccumulative potential			
Bioaccumulation	: This material is not expected to bioaccumulate.		
Mobility in soil			
Distribution among environmental compartments	: Stability in water no data available		
	: Stability in soil no data available Low absorption to soil particulates predicted		
Additional advice Environmental fate and pathways	: No additional information available.		
Besults of PBT and vPvB assess	ment		
Not applicable			
All an advance offecto			
Additional ecological information	: No additional information available.		
SECTION 13. DISPOSAL CONSID	PERATIONS		
Further information	 Contaminated product, soil, or water may be hazardous waste. Dispose of contents/ container to an approved landfill. Use registered transporters. Burn concentrated liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade. Avoid overloading/poisoning plant biomass. 		
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	Assure effluent complies with applicable regulations.						
Contaminated packaging	: Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.						
SECTION 14. TRANSPORT INFORI	IATION						
DOT UN number Description of the goods Class Packing group Labels	: NA1993 : Combustible liquid, r : (DIPROPYLENE GL : CL : III : 3	o.s. YCOL METHYL ET	THER)				
SECTION 15. REGULATORY INFO	RMATION						
If identified components of this prod will be listed below. Export notificati	uct are listed under the on required.	TSCA 12(b) Expo	rt Notification rule, they				
TSCA 12b Dipropylene Glycol Monomethyl Ether / CAS# 34590- TSCA section 4 94-8.							
SARA 302/304 This product contains no known chemicals regulated under SARA 302/304.							
SARA 311/312 Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:							
Immediate/Health Fire Hazard.							
SARA 313 This product contains no known chemicals regulated under SARA 313.							
State Reporting							
This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances.							
This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act: 34590-94-8 Dipropylene Glycol Monomethyl Ether							
This product contains the following chemicals regulated by Massachusetts' Right to Know Law:							
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lvondellbase

Gen. Variant: SDS US GHS

34590-94-8 Dipropylene Glycol Monomethyl Ether

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act: 34590-94-8 Dipropylene Glycol Monomethyl Ether

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant

REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been pre-registered or, where required under REACh, registered, and that we have the intention to proceed with any required registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyondellbasell.com for additional global inventory information.

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification

: Health Hazard: 1 Flammability: 2 Physical hazards: 0



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Chroat Ether DDM		Gon Variant: SDS US GHS
Version 1 1 Bevision Date 09/05/	2014 Print Date 06/3	30/2015 SDS No · BE64
NFPA Classification : Hea Fire Inst	llth Hazard: 1 Hazard: 2 ability: 0	
Other Information HMIS rating scale (0 = minimal haza NFPA rating scale (0 = minimal haza Material safety datasheet section Revised Section(s): 1 2 3 8 11	rd; 4 = severe hazard) rd; 4 = severe hazard) Is which have been upd 12 15 Revision Date Au	ated: Igust 31 2014
	Disclaimer	
data. Information is correct to the best of It is not a specification sheet nor sh Before using a product sold by a co should make their own independen use and can be used safely and leg IMPLIED (INCLUDING ANY WARF PARTICULAR PURPOSE OR ANY TO BY THE PARTIES IN A CONTE This product(s) may not be used in (i) any U.S. FDA Class I, Health Ca devices, without prior notification to manufacture of any of the following product and application: U.S. FDA III Medical Devices; European Unio packaging that is considered a part devices; packaging in direct contact form that is intended for inhalation, topical (skin) administration; tobacc and similar devices, and pressure p nuclear reactor. Additionally, the pr Devices; Health Canada Class IV M applications involving permanent in applications; and (iv) lead, asbestor Health Canada, and European Unio regulatory classification.	our knowledge at the dat ould any displayed data k impany of the LyondellBa t determination that the pr pally. SELLER MAKES NG ANTY OF MERCHANTA WARRANTY) OTHER T ACT. anda Class I, and/or Euro Seller for each specific p , without prior written app Class II Medical Devices; n Class II Medical Devices; n Class II Medical Devices; or component of one of t t with a pharmaceutical ar injection, intravenous, na o related products and ap pipe or fittings that are cor oduct(s) may not be used Medical Devices; Europea aplantation into the body; s or MTBE related application regulations include and x, MPDIOL, Polymeg, SA wned or used by the Lyor DL, Polymeg, Tebol, T-Hy	e of the SDS publication. be construed as a specification. sell family of companies, users roduct is suitable for the intended O WARRANTY; EXPRESS OR BILITY OR FITNESS FOR A HAN AS SEPARATELY AGREED opean Union Class I medical product and application; or (ii) the roval by Seller for each specific Health Canada Class II or Class es; film, overwrap and/or product he aforementioned medical ctive ingredient and/or dosage sal, ophthalmic (eye), digestive, or oplications, electronic cigarettes nsidered a part or component of a I in: (i) U.S. FDA Class III Medical n Class III Medical Devices; (ii) (iii) life-sustaining medical ations. All references to U.S. FDA, other country's equivalent
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