DIMETHYL DIGOL FOR SYNTHESIS

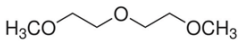
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□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 03395
□□ □□□□: 4/9/2014 □□ □□□□: 3/26/2025 □□ □□: 5/30/2016 □□: 1.1

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1.1. □□□□

□□ □□ : □□
□□□ : DIMETHYL DIGOL FOR SYNTHESIS
EC □□ □□ : 603-139-00-0
EC □□ : 203-924-4
CAS □□ : 111-96-6
□□ □□ : 03395
□□ □□ : Ethers
□□□ : C6H14O3
□□ □□ :



□□□ : Diethylene glycol dimethyl ether

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□□□/□□□□ □□ : Industrial. For professional use only
□□□□/□□□□ □□ : Laboratory chemicals
□□□ □□
□□

1.3. □□□□□□□□ □□□ □□

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1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP]□ □□ □□

□□□ □□, □□ 3 H226
□□□□, □□ 1B H360FD
□□(H) □□ □ EUH □□ □□: 16□ □□.

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□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

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GHS02 GHS08

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H226 - □□□ □□ □ □□.
H360FD - □□□□□ □□□ □ □□. □□□ □□□ □ □□.

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P210 - □·□□□ □□·□□□·□□·□□ □□□□□□□ □□□□□. □□.
P233 - □□□ □□□ □□□□□.
P308+P313 - □□□□□ □□□ □□□ □□: □□□ □□·□□□ □□□□.

EUH □□ : EUH019 - □□□ □□□□ □□ □□.

2.3. □□ □□

□ □□/□□□□ REACH □□, □□□ XIII□ □□ PBT□(□) □□□□ □□
□ □□/□□□□ REACH □□, □□□ XIII□ □□ vPvB□(□) □□□□ □□
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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□□□ XIII□ □□ REACH □□□ PBT □□□ □□□□ □□ □□	DIMETHYL DIGOL (111-96-6)
□□□ XIII□ □□ REACH □□□ vPvB □□□ □□□□ □□ □□	DIMETHYL DIGOL (111-96-6)

□ □□□ REACH□ 59(1)□□ □□ □□□ □□ □□□ □□ □□□ □□□ □□□ □□□□ □□ □□□, □□□ □□ □□ (EU) 2017/2100 □□ □□□ □□ (EU) 2018/605□ □ □□ □□□ □□ □□□ □□ □□□ □□ □□□ □□□□ □□□□□.

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□□	□□□□	%
DIMETHYL DIGOL REACH □□ □□□ □□□ □□ (Bis(2-methoxyethyl) ether REACH □□ XIV□ □□□ □□ (Bis(2-methoxyethyl) ether (diglyme))	CAS □□: 111-96-6 EC □□: 203-924-4 EC □□ □□: 603-139-00-0	100

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4.1. □□□□ □□

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□□□□ □ : Allow affected person to breathe fresh air. □□□ □□□□□ □□□ □□□ □□ □□□ □□□ □□□□ □ □ □□□ □□□ □□□□.
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□□□ □ : □□ □□□□□. Do not induce vomiting.

4.2. □□ □ □□□ □□ □□□ □□ □ □□

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물질안전보건자료
규정 (EU) 2020/878에 의해 수정된 REACH 규정 (EC) 1907/2006에 따름

섹션 5: 폭발·화재시 대처방법

5.1. 적절한 소화제

적절한 소화제 : Carbon dioxide. Dry powder. Foam. Water spray.
부적절한 소화제 : Do not use a heavy water stream.

5.2. 화학물질로부터 생기는 특정 유해성

화재 위험 : 인화성 액체 및 증기.

폭발 위험 : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. 폭발성 과산화물 형성 가능.

5.3. 소방관의 화재진압 시 주의사항

소방 지침 : 화염이 폭발성 물질에 도달하면 불을 끄려 하지 마시오. 주변 지역의 사람을 대피시키시오.

섹션 6: 누출사고시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치사항 및 보호구

일반 조치 : 점화원을 제거하시오. Use special care to avoid static electric charges. No open flames. No smoking.

비응급 대응 요원

응급 조치 : Evacuate unnecessary personnel.

응급 대응 요원

보호 장비 : 적절한 개인 보호구를 착용하시오.
응급 조치 : Ventilate area.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오.

6.3. 정화 또는 제거 방법

세척 방법 : 누출물을 모으시오. On land, sweep or shovel into suitable containers.

6.4. 기타 항목 참조

자료 없음

섹션 7: 취급 및 저장방법

7.1. 안전취급요령

취급 시 발생가능한 추가 위험 : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.
안전취급요령 : No open flames. No smoking. 정전기 방지 조치를 취하시오. 스파크가 발생하지 않는 도구를 사용하시오. 사용 전 취급 설명서를 확보하시오. 모든 안전 예방조치 문구를 읽고 이해하기 전에는 취급하지 마시오. Keep away from
sources of ignition - No smoking.
위생 조치 : 이 제품을 사용할 때에는 먹거나, 마시거나 흡연하지 마시오. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. 피해야할 조건을 포함한 안전한 저장 방법

기술적 조치 : Proper grounding procedures to avoid static electricity should be followed. 용기와 수용설비를 접지하시 오. 방폭형 전기·환기·조명.설비를 사용하시오.

보관 조건 : 용기를 단단히 밀폐하시오. Keep in fireproof place.
피해야할 제품 : Oxidizing agent.
피해야 할 물질 : Heat sources.

7.3. 특정 최종 사용

자료 없음

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Chemical goggles or safety glasses

Skin protection

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Wear a mask

□ □□:

Protective gloves

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Wear appropriate mask

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□□	:	Colourless.
□□	:	Clear liquid.
□□□	:	134.18 g/mol
□□	:	etheral odour.
□□ □□	:	□□□□
□□□	:	□□□□
□□□	:	-64 °C
□□ □□□□ □□□ □□	:	162 °C
□□□	:	Flammable □□□ □□ □ □□
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□□ □□□	:	1.5 vol %
□□ □□□	:	17.4 vol %
□□□	:	57 °C - closed cup
□□□□ □□	:	190 °C
□□ □□	:	> 165 °C
pH	:	□□□□
□□(□□□)	:	2.134 mm²/s
□□(□□□□)	:	2 mPa·s at 20 °C
□□□	:	□: Miscible with water □□□: Miscible with ethanol □□□: Miscible with ether
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	1.7 mm Hg at 20 °C
50°C□□□ □□□	:	□□□□
□□	:	0.937 g/cm³ at 25 °C
□□	:	□□□□

20°C□□□ □□ □□ □□	:	4.62 (Air = 1)
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□□ □□ □□(□□□□□□□□=1)	:	0.36
□□□	:	1.4097 at 20 °C/D

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10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

Reacts vigorously with strong oxidizers and acids.

10.4. □□□ □ □□

Open flame. □. Sparks.

10.5. □□□ □ □□

Oxidizing agent.

10.6. □□□ □□□□ □□□□

May release flammable gases. □□□ □□□□ □□ □□.

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11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

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DIMETHYL DIGOL FOR SYNTHESIS (111-96-6)	
□□(□□□)	2.134 mm²/s

DIMETHYL DIGOL (111-96-6)	
□□(□□□)	2.134 mm²/s

11.2. □□ □□ □□

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DIMETHYL DIGOL FOR SYNTHESIS (111-96-6)	
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DIMETHYL DIGOL (111-96-6)	
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12.5. PBT □ vPvB □□ □□

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□□□ XIII□ □□ REACH □□□ PBT □□□ □□□□ □□ □□	DIMETHYL DIGOL (111-96-6)
□□□ XIII□ □□ REACH □□□ vPvB □□□ □□□□ □□ □□	DIMETHYL DIGOL (111-96-6)

12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ □□ : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 3271
UN-□□ (IMDG) : UN 3271
UN-□□ (IATA) : UN 3271
UN-□□ (ADN) : UN 3271
UN-□□ (RID) : UN 3271

14.2. UN □□ □□□

□□ □□□ (ADR) : □□□, □□ □□□ □□□ □□ □

□□ □□□ (IMDG)	:	ETHERS, N.O.S.
□□ □□□ (IATA)	:	Ethers, n.o.s.
□□ □□□ (ADN)	:	□□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	:	□□□, □□ □□□ □□□ □□ □
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□□ □□ □□ (IMDG)	:	UN 3271 ETHERS, N.O.S., 3, III
□□ □□ □□ (IATA)	:	UN 3271 Ethers, n.o.s. (DIMETHYL DIGOL), 3, III
□□ □□ □□ (ADN)	:	UN 3271 □□□, □□ □□□ □□□ □□ □, 3, III
□□ □□ □□ (RID)	:	UN 3271 □□□, □□ □□□ □□□ □□ □, 3, III

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ADR

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IMDG

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IATA

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ADN

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□□ □□ (ADN)	:	3
	:	

RID

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□□ □□ (RID)	:	3
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14.4. □□□□

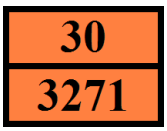
□□ □□ (ADR)	:	III
□□ □□(IMDG)	:	III
□□ □□ (IATA)	:	III
□□ □□(ADN)	:	III
□□ □□(RID)	:	III

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EmS-No. (□□)	:	F-E
EmS-No. (□□)	:	S-D
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□□ □□(ADR)	:	274
□□□(ADR)	:	5l
□□□(ADR)	:	E1
□□ □□(ADR)	:	P001, IBC03, LP01, R001
□□ □□ □□ □□ □□(ADR)	:	MP19
□□□ □□ □ □□ □□□□ □□ (ADR)	:	T4
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	:	TP1, TP29
□□ □□(ADR)	:	LGBF
□□ □□□ □□	:	FL
□□ □□(ADR)	:	3
□□ □□ □□ □□ - □□(ADR)	:	V12
□□ □□ □□ □□ - □□(ADR)	:	S2
□□ □□ □□(Kemler □□)	:	30
Orange plates (□□□□□□)	:	
□□ □□ □□ (ADR)	:	D/E
EAC □□	:	3Y

□□ □□

□□ □□ (IMDG)	:	223, 274
□□ □□(IMDG)	:	5 L
□□□(IMDG)	:	E1
□□ □□ (IMDG)	:	P001, LP01
IBC □□ □□(IMDG)	:	IBC03
□□ □□ (IMDG)	:	T4
□□ □□ □□ (IMDG)	:	TP1, TP29
□□ □□ (IMDG)	:	A
MFAG-□□	:	127;128

□□ □□

PCA □□ □□(IATA)	:	E1
PCA □□ □□(IATA)	:	Y344
PCA □□ □□ □□ □□□(IATA)	:	10L
PCA □□ □□(IATA)	:	355
PCA □□ □□□(IATA)	:	60L
CAO □□ □□(IATA)	:	366
CAO □□ □□□(IATA)	:	220L
□□ □□(IATA)	:	A3
ERG □□(IATA)	:	3L

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□□ □□(ADN)	:	F1
□□ □□(ADN)	:	274
□□□(ADN)	:	5 L
□□□(ADN)	:	E1
□□□□(ADN)	:	T
□□ □□(ADN)	:	PP, EX, A
□□(ADN)	:	VE01
□□ □□/□□□ □□(ADN)	:	0

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□□ □□(RID)	:	F1
□□ □□(RID)	:	274
□□ □□(RID)	:	5L
□□□(RID)	:	E1
□□ □□ (RID)	:	P001, IBC03, LP01, R001
□□ □□ □□ □□ □□(RID)	:	MP19
□□□ □□ □ □□ □□□□ □□ (RID)	:	T4
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP1, TP29
RID □□□ □□ □□(RID)	:	LGBF
□□ □□(RID)	:	3
□□ □□ □□ □□ - □□(RID)	:	W12
□□ □□□	:	CE4
□□□ □□ □□ (RID)	:	30

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(a)	DIMETHYL DIGOL FOR SYNTHESIS
3(b)	DIMETHYL DIGOL FOR SYNTHESIS
40.	DIMETHYL DIGOL FOR SYNTHESIS

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□)□ □□□: Bis(2-methoxyethyl) ether (diglyme)

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□: Bis(2-methoxyethyl) ether

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

□□ □□□□ □□ (2019/1148)

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148)□ □□□ □□ □□□□ □□

□□ □□□□ □□ (273/2004)

□□ □□□□ □□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□ □□□ □□□□ □□ □□□ □□ □ □□□ □□ □□ EC 273/2004)

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□□

VOC ordinance (ChemVOCFarbV) :

WGK	:	WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 1258).
□□□□ □□ □□ (ChemVerbotsV)	:	This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
□□ □□ □□(12. BImSchV)	:	□□ □□ □□(12. BImSchV)□ □□ □□ □□

□□□□

SZW-lijst van kankerverwekkende stoffen	:	□□□ □□□□ □□□□□.
SZW-lijst van mutagene stoffen	:	□□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	□□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	DIMETHYL DIGOL□(□) □□□ □□□□□
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	DIMETHYL DIGOL□(□) □□□ □□□□□

□□□

Class for fire hazard	:	□□ III-1
Store unit	:	50 liter
□□ □□ □□ □□	:	□□□□ □□□□ □□ □□□; □□□ □□ □□□ □□ □□ □□ □□□ □□□□ □□□
□□□ □□ □□	:	18□ □□ □□□ □□ □□□ □□□□□ □ □□□□ □□□□ □□/□□□□ □□ □□□ □□ □□□□ □ □□□.

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□□□ □□ □□	:	Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225). Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797). The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended). Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923). Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154). Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended). The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488) Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141). ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

15.2. □□ □□ □□□ □□

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□□ 16: □ □□ □□□□

□H□ □ EUH□ □□:	
□□□□ 1B	□□□□, □□ 1B
□□□ □□ 3	□□□ □□, □□ 3
H226	□□□ □□ □ □□.
H360FD	□□□□□ □□□ □ □□. □□□ □□□ □ □□.

□H□ □ EUH□ □□:	
EUH019	□□□ □□□□ □□ □□.

□□□□□□□□□(SDS), EU

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