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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier**

Trade name Product code Registration number	<ul> <li>Methyl DIPROXITOL</li> <li>U5139</li> <li>01-2119450011-60-0001, 05-2114289999-15-0000</li> </ul>
Synonyms	: 2-(2-methoxymethylethoxy)propanol, DPGME, DPM, Methoxy
CAS-No.	dipropanol : 34590-94-8
Relevant identified uses of	the substance or mixture and uses advised against

Use of the Substance/Mixture	:	Speciality solvent. Please refer to Ch16 for the registered uses under REACH.
Uses advised against	:	This product must not be used in applications other than the above without first seeking the advice of the supplier.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: Shell Chemicals Europe B.V. PO Box 2334 3000 CH Rotterdam
	Netherlands
Telephone	: +31 (0)10 441 5137 / +31 (0)10 441 5191
Telefax	: +31 (0)20 716 8316 / +31 (0)20 713 9230
Email Contact for Safety Data	: sccmsds@shell.com
Sheet	

#### **1.4 Emergency telephone number**

+44 (0) 1235 239 670 Vergiftungsinformationszentrale: +43 1 406 43 43

Other information

: DIPROXITOL is a trademark owned by Shell Trademark Management B.V. and Shell Brands Inc. and used by affiliates of Royal Dutch Shell plc.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Based on available data this substance / mixture does not meet the classification criteria.

#### 2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)				
Hazard pictograms	:	No Hazard Symbo	bl required	
Signal word	:	No signal word		
Hazard statements	:		PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP criteria. HEALTH HAZARDS: Not classified as a health hazard under CLP criteria. ENVIRONMENTAL HAZARDS: Not classified as environmental hazard according to CLP criteria.	
Precautionary statements	:	Prevention: Response: Storage: Disposal:	No precautionary phrases. No precautionary phrases. No precautionary phrases. No precautionary phrases.	

#### 2.3 Other hazards

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable airvapour mixtures can occur.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### Hazardous components

Chemical name	CAS-No. EC-No.	Concentration [%]
Dipropylene glycol methyl	34590-94-8	<= 100
ether	252-104-2	
2-methoxypropanol	1589-47-5	< 0,1
	216-455-5	

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# SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice	: Not expected to be a health hazard when used under normal conditions.			
Protection of first-aiders	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.			
If inhaled	: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.			
In case of skin contact	<ul> <li>Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>			
In case of eye contact	<ul> <li>Flush eye with copious quantities of water.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>			
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.			
4.2 Most important symptoms and	d effects, both acute and delayed			
Symptoms	<ul> <li>Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.</li> <li>Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.</li> <li>Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light- headedness, headache, nausea and loss of coordination.</li> <li>Continued inhalation may result in unconsciousness and death.</li> </ul>			
4.3 Indication of any immediate medical attention and special treatment needed				
Treatment	: Causes central nervous system depression. Potential for chemical pneumonitis.			

Call a doctor or poison control center for guidance.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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Suitable extinguishing media		Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only		
Unsuitable extinguishing media	: None			
5.2 Special hazards arising from	the substance or mixture			
Specific hazards during firefighting	: The vapour is heavier than air, spread distant ignition is possible. Carbon mo if incomplete combustion occurs.			
5.3 Advice for firefighters				
Special protective equipment for firefighters	: Proper protective equipment including gloves are to be worn; chemical resist large contact with spilled product is ex Breathing Apparatus must be worn wh a confined space. Select fire fighter's relevant Standards (e.g. Europe: EN4	tant suit is indicated if pected. Self-Contained nen approaching a fire in clothing approved to		
Specific extinguishing methods	: Standard procedure for chemical fires	).		
Further information	: Clear fire area of all non-emergency p Keep adjacent containers cool by spra			

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Observe the relevant local and international regulations Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.
	Local authorities should be advised if significant spillages cannot be contained.
	The vapour is heavier than air, spreads along the ground and distant ignition is possible.
	Vapour may form an explosive mixture with air.
	6.1.1 For non emergency personnel:
	Avoid contact with skin, eyes and clothing.
	Isolate hazard area and deny entry to unnecessary or unprotected personnel.
	Stay upwind and keep out of low areas.
	6.1.2 For emergency responders:
	Avoid contact with skin, eyes and clothing.
	Isolate hazard area and deny entry to unnecessary or unprotected personnel.
	Stay upwind and keep out of low areas.

#### 6.2 Environmental precautions

possible sources of ignition in the surrounding area. Use
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	appropriate containment to avoid en contamination. Prevent from spreadi ditches or rivers by using sand, earth barriers. Attempt to disperse the vap a safe location for example by using precautionary measures against stat electrical continuity by bonding and equipment. Ventilate contaminated area thoroug Monitor area with combustible gas in	ing or entering drains, h, or other appropriate bour or to direct its flow to fog sprays. Take tic discharge. Ensure grounding (earthing) all ghly.	
6.3 Methods and materials f	or containment and cleaning up		
Methods for cleaning	bds for cleaning up : For large liquid spills (> 1 drum), transfer by mechanical		

Cleaning up
 For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.</li>

#### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

#### **SECTION 7: Handling and storage**

General Precautions :	Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Ensure that all local regulations regarding handling and storage facilities are followed.		
Precautions for safe handling			
Advice on safe handling :	Avoid contact with skin, eyes and clothing. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Bulk storage tanks should be diked (bunded). Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment		

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	T ir fl n C	o reduce the risk. The vapours in the head space of the stor in the flammable/explosive range and hen ammable. Properly dispose of any contaminated rag naterials in order to prevent fires. Do NOT use compressed air for filling, dis andling operations.	ce may be s or cleaning
Product Transfer	: R	Refer to guidance under Handling section	
7.2 Conditions for safe storage,	incluc	ding any incompatibilities	
Requirements for storage areas and containers	a s	The vapour is heavier than air. Beware of and confined spaces. Refer to section 15 pecific legislation covering the packaging product.	for any additional
Packaging material	S	Suitable material: For containers, or conta teel, stainless steel. Insuitable material: Natural, butyl, neopre	-
Container Advice	е	Containers, even those that have been en explosive vapours. Do not cut, drill, grind, imilar operations on or near containers.	
7.3 Specific end use(s)			
Specific use(s)		Please refer to Ch16 and/or the annexes t ses under REACH.	for the registered
	s S A Iç N	Ensure that all local regulations regarding torage facilities are followed. See additional references that provide saf merican Petroleum Institute 2003 (Prote- gnitions Arising out of Static, Lightning ar lational Fire Protection Agency 77 (Reco on Static Electricity). EC/TS 60079-32-1: Electrostatic hazards	e handling practices: ction Against nd Stray Currents) or mmended Practices

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dipropylene glycol	34590-94-8	TRK-TMW	50 ppm	AT OEL

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methyl ether			307 mg/m3	
Further information	Risk of skin	absorption		
Dipropylene glycol methyl ether	34590-94-8	TRK-KZW	100 ppm 614 mg/m3	AT OEL
Further information	Risk of skin absorption			
2-methoxypropanol	1589-47-5	TRK-KZW	80 ppm 300 mg/m3	AT OEL
Further information	See Annex IV D, Risk of skin absorption			
2-methoxypropanol	1589-47-5	TRK-TMW	20 ppm 75 mg/m3	AT OEL
Further information	See Annex I	V D, Risk of skir	absorption	

#### **Biological occupational exposure limits**

No biological limit allocated.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Dipropylene glycol methyl : No DNEL value has been established. ether

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Dipropylene glycol methyl : Exposure assessments have not been presented for the environment therefore PNEC values not required.

#### **Monitoring Methods**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

#### 8.2 Exposure controls

**Engineering measures**The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local

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circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended.

Firewater monitors and deluge systems are recommended.

Eye washes and showers for emergency use.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

#### Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection	:	If material is handled such that it could be splashed into eyes,
		protective eyewear is recommended. Approved to EU Standard EN166.

Where hand contact with the product may accur the use of

Hand protection

Remarks

CITIAINS	. Where hand contact with the product may occur the use of
	gloves approved to relevant standards (e.g. Europe: EN374,
	US: F739) made from the following materials may provide
	suitable chemical protection. Longer term protection: Nitrile
	rubber gloves. Incidental contact/Splash protection: PVC,
	neoprene or nitrile rubber gloves For continuous contact we
	recommend gloves with breakthrough time of more than 240
	minutes with preference for > 480 minutes where suitable
	gloves can be identified. For short-term/splash protection we
	recommend the same, but recognize that suitable gloves
	offering this level of protection may not be available and in this
	case a lower breakthrough time maybe acceptable so long as
	appropriate maintenance and replacement regimes are
	followed. Glove thickness is not a good predictor of glove
	resistance to a chemical as it is dependent on the exact
	composition of the glove material. Glove thickness should be

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	typically greater than 0.35 mm of and model. Suitability and durate on usage, e.g. frequency and du resistance of glove material, des from glove suppliers. Contamina replaced. Personal hygiene is a care. Gloves must only be worn gloves, hands should be washed Application of a non-perfumed n	bility of a glove is dependent uration of contact, chemical ated gloves should be key element of effective hand on clean hands. After using d and dried thoroughly.
Skin and body protection	: Skin protection is not required u For prolonged or repeated expo over parts of the body subject to If repeated and/or prolonged ski is likely, then wear suitable glow and provide employee skin care	sures use impervious clothing exposure. n exposure to the substance es tested to relevant Standard,
	Protective clothing approved to	EU Standard EN14605.
	Wear antistatic and flame retard assessment deems it so.	ant clothing, if a local risk
Respiratory protection	: If engineering controls do not mac concentrations to a level which i health, select respiratory protect specific conditions of use and m Check with respiratory protective Where air-filtering respirators ar concentrations are high, risk of o space) use appropriate positive Where air-filtering respirators ar appropriate combination of mass If air-filtering respirators are suit Select a filter suitable for organic EN14387 [Filter type A, for use a and vapours with a boiling point	s adequate to protect worker tion equipment suitable for the eeting relevant legislation. e equipment suppliers. e unsuitable (e.g. airborne bxygen deficiency, confined pressure breathing apparatus. e suitable, select an k and filter. able for conditions of use: c gases and vapours meeting against certain organic gases
Thermal hazards	: Not applicable	
Hygiene measures	: Wash hands before eating, drink toilet. Launder contaminated clo	
Environmental exposure co	ontrols	
General advice	: Take appropriate measures to further relevant environmental protection contamination of the environmental protection of the	n legislation. Avoid

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Version 1.1Revision Date 21.12.2018Print Date 26.12.2018Chapter 6. If necessary, prevent undissolved material from<br/>being discharged to waste water. Waste water should be<br/>treated in a municipal or industrial waste water treatment plant<br/>before discharge to surface water.<br/>Local guidelines on emission limits for volatile substances<br/>must be observed for the discharge of exhaust air containing<br/>vapour.<br/>Minimise release to the environment. An environmental<br/>assessment must be made to ensure compliance with local<br/>environmental legislation.<br/>Information on accidental release measures are to be found in<br/>section 6.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	clear
Odour	:	Ethereal
Odour Threshold	:	Data not available
рН	:	Not applicable
Melting / freezing point	:	-83 °C
Boiling point/boiling range	:	184 - 190 °C
Flash point	:	75 °C Method: ASTM D-93 / PMCC
Evaporation rate	:	0,01 Method: ASTM D 3539, nBuAc=1
Upper explosion limit	:	14 %(V)
Lower explosion limit	:	1,1 %(V)
Vapour pressure	:	37,1 Pa (25 °C)
Relative vapour density	:	Data not available
Relative density	:	0,95 - 0,96 (20 °C)
Density	:	952 - 956 kg/m3 (20 °C) Method: ASTM D4052
Solubility(ies)		
Water solubility	:	completely soluble (25 °C)

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Partition coefficient: n- octanol/water	: log Pow: < 0,01	
Auto-ignition temperature	: 205 °C	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 4,55 mm2/s (20 °C)	
Explosive properties	: Not applicable	
Oxidizing properties	: Data not available	
9.2 Other information		
Surface tension	: 68,7 mN/m, 20 °C	
Conductivity	: Electrical conductivity: > 10,000	pS/m
	A number of factors, for example of contaminants, and anti-static the conductivity of a liquid, This a static accumulator.	additives can greatly influence
Molecular weight	: 148,2 g/mol	

# **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

#### **10.2 Chemical stability**

No hazardous reaction is expected when handled and stored according to provisions

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Reacts with strong oxidising agents.
10.4 Conditions to avoid	
Conditions to avoid	<ul> <li>Avoid heat, sparks, open flames and other ignition sources.</li> <li>Prevent vapour accumulation.</li> <li>In certain circumstances product can ignite due to static electricity.</li> </ul>

#### 10.5 Incompatible materials

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Materials to avoid	: Strong oxidising agents.	
10.6 Hazardous decomposition	products	
Hazardous decomposition products	: Thermal decomposition is highly dep complex mixture of airborne solids, li including carbon monoxide, carbon of and unidentified organic compounds material undergoes combustion or th	iquids and gases dioxide, sulphur oxides will be evolved when this

degradation.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Basis for assessm Information on like exposure		<ul> <li>Information given is based on product testing.</li> <li>Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.</li> </ul>	I
Acute toxicity			
Product:			
Acute oral toxicity	:	: LD50 Rat: > 5000 mg/kg Remarks: Low toxicity:	
Acute inhalation to	exicity :	<ul> <li>Remarks: Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache and nausea. Low toxicity if inhaled.</li> <li>Based on available data, the classification criteria are not met</li> </ul>	
Acute dermal toxic	sity :	: LD50 Rabbit: > 5000 mg/kg Remarks: Low toxicity:	

#### Skin corrosion/irritation

#### Product:

Remarks: Not irritating to skin.

### Serious eye damage/eye irritation

#### Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

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#### Product:

Test Method: Skin sensitisation Remarks: Not a sensitiser., Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

#### Product:

: Remarks: No evidence of mutagenic activity.

#### Carcinogenicity

#### Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification	
Dipropylene glycol methyl ether	No carcinogenicity classification.	
2-methoxypropanol	No carcinogenicity classification.	

#### **Reproductive toxicity**

#### Product:

Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair fertility.

#### STOT - single exposure

#### Product:

Remarks: Inhalation of vapours or mists may cause irritation to the respiratory system.

#### STOT - repeated exposure

#### Product:

Remarks: Based on available data, the classification criteria are not met.

#### Aspiration toxicity

#### Product:

Not an aspiration hazard.

#### **Further information**

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#### Product:

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

Summary on evaluation of the Germ cell mutagenicity- Assessment	<ul> <li>e CMR properties</li> <li>: This product does not meet the criteria for classification in categories 1A/1B.</li> </ul>
Carcinogenicity - Assessment	: This product does not meet the criteria for classification in categories 1A/1B.
Reproductive toxicity - Assessment	: This product does not meet the criteria for classification in categories 1A/1B.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Basis for assessment Product:	:	Information given is based on product testing.
Toxicity to fish (Acute toxicity)	:	Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to crustacean (Acute toxicity)	:	Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic toxicity)	:	Remarks: Data not available
Toxicity to crustacean (Chronic toxicity) Toxicity to microorganisms	:	Remarks: Data not available
(Acute toxicity)	•	Remarks: Practically non toxic: LL/EL/IL50 > 100 mg/l

#### 12.2 Persistence and degradability

roduct:
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Biodegradability

: Remarks: Readily biodegradable., Oxidises rapidly by photochemical reactions in air.

#### 12.3 Bioaccumulative potential

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Product:				
Bioaccumulation	: Remarks: Does not bioaccumulate s	Remarks: Does not bioaccumulate significantly.		
Partition coefficient: n- octanol/water	: log Pow: < 0,01	log Pow: < 0,01		
12.4 Mobility in soil				
Product:				
Mobility	: Remarks: If product enters soil, one or more constituents will be mobile and may contaminate groundwater., Dissolves in water.			
12.5 Results of PBT and vPvB a	assessment			
Product:				
Assessment	<ul> <li>The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.</li> </ul>			
12.6 Other adverse effects				
Product:				
Additional ecological information	: Data not available			

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	<ul> <li>Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses</li> <li>Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.</li> </ul>
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
Contaminated packaging	<ul> <li>Drain container thoroughly.</li> <li>After draining, vent in a safe place away from sparks and fire.</li> <li>Residues may cause an explosion hazard.</li> <li>Do not, puncture, cut, or weld uncleaned drums.</li> <li>Send to drum recoverer or metal reclaimer.</li> </ul>

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	Dispose in accordance with prevailin	g regulations, preferably
	• • • •	

to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

#### **SECTION 14: Transport information**

14.1 UN number	
ADN	: 9003
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.2 Proper shipping name	
ADN	<ul> <li>SUBSTANCES WITH FLASHPOINT &gt; 60°C BUT NOT MORE THAN 100 °C (Dipropylene glycol monoethyl ether)</li> </ul>
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.3 Transport hazard class	
ADN	: 9
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.4 Packing group	5 5 5
ADN	
Packing group	: Not Assigned
Labels	: 9 (F)
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good
14.5 Environmental hazards	
ADN	
Environmentally hazardous	: no
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
14.6 Special precautions for user	
Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Pollution category Ship type Product name	: Z : 3 : Poly (2-8) alkylene glycol monoalkyl	(C1-C6) ether
Additional Information	: This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry.	

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - List of substances subject to authorisation (Annex XIV)		: Product is not subject to Authorisation under REACH.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).		: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
Water contaminating class (Germany)	: WGK 1 slightly hazard Remarks: Code Numb AwSV	ous to water er: 5087, Classification according to
Other regulations		ation is not intended to be regulations may apply to this material.
	and of the Council of 1 Registration, Evaluation Chemicals (REACH), a Regulation (EC) No 19 and of the Council of 1 Registration, Evaluation Chemicals (REACH), Directive 2012/18/EU involving dangerous su Directive 2004/37/EC risks related to exposu and its amendments. Directive 1994/33/EC work and its amendment Council Directive 92/8 to encourage improver	207/2006 of the European Parliament 8 December 2006 concerning the on, Authorisation and Restriction of annex XVII. on the control of major-accident hazards ubstances (Seveso III). on the protection of workers from the are to carcinogens or mutagens at work on the protection of young people at ents. 5/EEC on the introduction of measures ments in the safety and health at work of workers who have recently given birth

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#### The components of this product are reported in the following inventories:

AIIC	:	Listed
DSL	:	Listed
IECSC	:	Listed
ENCS	:	Listed
KECI	:	Listed
NZIoC	:	Listed
PICCS	:	Listed
TSCA	:	Listed
EINECS/ELINCS/EC	:	Listed
TCSI	:	Listed

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment was performed for all substances of this product.

#### **SECTION 16: Other information**

Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and
	Abbreviations and Acronyms	Abbreviations and Acronyms :

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

Methyl DIPROXITOL		
/ersion 1.1	Revision Date 21.12.2018	Print Date 26.12.2018
	Revision Date 21.12.2018Print Date 26.12.20Labelling of ChemicalsIARC = International Agency for Research on CancerIATA = International Air Transport AssociationIC50 = Inhibitory Concentration fiftyIL50 = Inhibitory Level fiftyIMDG = International Maritime Dangerous GoodsINV = Chinese Chemicals InventoryIP346 = Institute of Petroleum test method N° 346 for thedetermination of polycyclic aromatics DMSO-extractablesKECI = Korea Existing Chemicals InventoryLC50 = Lethal Concentration fiftyLD50 = Lethal Concentration fiftyLD50 = Lethal Loading/Effective Loading/Inhibitory loadingLL50 = Lethal Loading fiftyMARPOL = International Convention for the Prevention ofPollution From ShipsNOEC/NOEL = No Observed Effect Concentration / NoObserved Effect LevelOE_HPV = Occupational Exposure - High Production VolumePBT = Persistent, Bioaccumulative and ToxicPICCS = Philippine Inventory of Chemicals and ChemicalSubstancesPNEC = Predicted No Effect ConcentrationREACH = Registration Evaluation And Authorisation OfChemicalsRID = Regulations Relating to International Carriage ofDangerous Goods by RailSKIN_DES = Skin DesignationSTEL = Short term exposure limitTRA = Targeted Risk AssessmentTSCA = US Toxic Substances Control ActTWA = Time-Weighted AveragevPvB = very Persistent and very Bioaccumulative	
Further information		
Training advice	: Provide adequate information, instru- operators.	ction and training for
Other information	: This product is not classified for hum environmental hazards. An exposure For Industry guidance and tools on R CEFIC website at http://cefic.org/Indu The substance does not fulfill all scree persistence, bioaccumulation and too considered to be PBT or vPvB. A vertical bar ( ) in the left margin ind from the previous version.	e scenario is not required. REACH please visit the ustry-support. eening criteria for kicity and hence is not
Sources of key data used to compile the Safety Data	: The quoted data are from, but not lin sources of information (e.g. toxicolog	

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Sheet	Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).		
Identified Uses according to t Uses - Worker	he Use Descriptor System		
Title :	<ul> <li>Industrial</li> <li>Manufacture of substance</li> <li>Distribution of substance</li> <li>Use as an intermediate</li> <li>Formulation &amp; (re)packing of substance</li> <li>Uses in Coatings</li> <li>Use in Cleaning Agents</li> <li>Use in laboratories</li> <li>Metal working fluids / rolling oils</li> </ul>	es and mixtures	
<b>Uses - Worker</b> Title :	- Professional Uses in Coatings Use in Cleaning Agents Use in Agrochemicals uses Use in laboratories Metal working fluids / rolling oils		
<b>Uses - Consumer</b> Title :	- Consumer Uses in Coatings Use in Cleaning Agents Use in Agrochemicals uses		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.