Moccan	ocar Italia S.r.l.		Revision nr. 2
Weccan	ocal Italia S.I.I.		Dated 08/07/2020
	DOT 5		Printed on 08/07/2020
	0015		Page n. 1/22
			Replaced revision:1 (Dated: 01/03/2019)
	Sofaty Dat	a Chaot	
A	Safety Dat		
Acco	ording to Annex II to REAC	- Regulation 2015/830	
SECTION 1. Identification of the su	hstance/mixture a	nd of the company/und	ertaking
		ind of the company/and	
1.1. Product identifier			
Code:	411 00 15295-2895 25		
Product name	411 00 14675-2747 1I DOT 5		
1.2. Relevant identified uses of the substance of	mixture and uses advis	ed against	
Intended use Brake fluid			
1.3. Details of the supplier of the safety data she	oot .		
Name	Meccanocar Italia S.r	·.I.	
Full address	Via San Francesco, 2		
District and Country	56033 Capannoli (PI) Italy		
	Tel. +39 0587 609433		
	Fax +39 0587 607145		
	Fax +39 0367 007 143		
e-mail address of the competent person			
responsible for the Safety Data Sheet	moreno.meini@meco	canocar.it	
1.4. Emergency telephone number			
For urgent inquiries refer to	National Poisons Info	ormation Service: +44 121 507 41	23
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to	the provisions set forth i	n (EC) Regulation 1272/2008 (Cl	P) (and subsequent amendments and
supplements). The product thus requires a safety data	asheet that complies with t	the provisions of (EU) Regulation 2	015/830.
Any additional information concerning the risks for he			
Hazard classification and indication: Serious eye damage, category 1	H318	Causes serious eye dam	age
			290.
2.2. Label elements			
Hazard labelling pursuant to EC Regulation 1272/200	8 (CLP) and subsequent a	amendments and supplements.	
Hazard pictograms:			

	weccanoca	ar Italia S.r.I.	Dated 08/07/2020
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Signal words:	Danger		
lazard statements:			
H318	Causes serious eye damage		
Precautionary statements:			
P305+P351+P338		y with water for several minutes. Remove cont	act lenses, if present and easy to do. Continue
P280	rinsing. Wear eye protection / face pr	rotection.	
P310	Immediately call a POISON (
Contains:	TRIETHYLENE GLYCOL MC	ONOBUTYL ETHER	
On the basis of available da		ain any PBT or vPvB in percentage greater tha	n 0,1%.
	ata, the product does not conta		n 0,1%.
On the basis of available da			n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures			n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains:	position/information x = Conc. %	on ingredients	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6	position/information x = Conc. %	on ingredients Classification 1272/2008 (CLP)	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX -	position/information x = Conc. % - 47,5 ≤ x < 50	on ingredients Classification 1272/2008 (CLP)	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510	position/information x = Conc. % - 47,5 ≤ x < 50 7-38-XXXX	on ingredients Classification 1272/2008 (CLP)	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E	position/information x = Conc. % 47,5 ≤ x < 50 7-38-XXXX ETHANOL	ON INGREDIENTS Classification 1272/2008 (CLP) Eye Dam. 1 H318	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5	position/information x = Conc. % - 47,5 ≤ x < 50 7-38-XXXX	on ingredients Classification 1272/2008 (CLP)	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6	position/information x = Conc. % 47,5 ≤ x < 50 7-38-XXXX ETHANOL	ON INGREDIENTS Classification 1272/2008 (CLP) Eye Dam. 1 H318	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8	position/information $x = Conc. \%$ $47,5 \le x < 50$ 7-38-XXXX ETHANOL $4 \le x < 4,5$	ON INGREDIENTS Classification 1272/2008 (CLP) Eye Dam. 1 H318	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-211947510	position/information $x = \text{Conc. \%}$ $47,5 \le x < 50$ 7-38-XXXX THANOL $4 \le x < 4,5$ 4-44-XXXX	ON INGREDIENTS Classification 1272/2008 (CLP) Eye Dam. 1 H318	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8	position/information $x = \text{Conc. \%}$ $47,5 \le x < 50$ 7-38-XXXX THANOL $4 \le x < 4,5$ 4-44-XXXX	ON INGREDIENTS Classification 1272/2008 (CLP) Eye Dam. 1 H318	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-211947510 1,1'-IMINODI-2-PROPAN	position/information $x = Conc. \%$ $47,5 \le x < 50$ 7-38-XXXX THANOL $4 \le x < 4,5$ 4-44-XXXX NOL	on ingredients Classification 1272/2008 (CLP) Eye Dam. 1 H318 Eye Irrit. 2 H319	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-211947510- 1,1'-IMINODI-2-PROPAN CAS 110-97-4	position/information $x = Conc. \%$ $47,5 \le x < 50$ 7-38-XXXX THANOL $4 \le x < 4,5$ 4-44-XXXX NOL	on ingredients Classification 1272/2008 (CLP) Eye Dam. 1 H318 Eye Irrit. 2 H319	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-211947510 1,1'-IMINODI-2-PROPAN CAS 110-97-4 EC 203-820-9	position/information $x = Conc. \%$ $47,5 \le x < 50$ 7-38-XXXX ETHANOL $4 \le x < 4,5$ $4 \le x < 4,5$	on ingredients Classification 1272/2008 (CLP) Eye Dam. 1 H318 Eye Irrit. 2 H319	n 0,1%.
On the basis of available da SECTION 3. Com 3.2. Mixtures Contains: Identification TRIETHYLENE GLYCOL MONOBUTYL ETHER CAS 143-22-6 EC 205-592-6 INDEX - Reg. no. 01-211947510 2-(2-BUTOXYETHOXY)E CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-211947510 1,1'-IMINODI-2-PROPAN CAS 110-97-4 EC 203-820-9 INDEX -	position/information $x = Conc. \%$ $47,5 \le x < 50$ 7-38-XXXX THANOL $4 \le x < 4,5$ $4-44-XXXX$ IOL $4 \le x < 4,5$	on ingredients Classification 1272/2008 (CLP) Eye Dam. 1 H318 Eye Irrit. 2 H319	n 0,1%.

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CAS 1559-34-8	4 ≤ x < 4,5	Eye Irrit. 2 H319	
EC 216-322-1			
INDEX -			
Reg. no. 01-2120768763-41-XXXX			
DIETHYLENE GLYCOL MONOMETHYL ETHER CAS 111-77-3	0,85 ≤ x < 0,95	Repr. 2 H361d	
EC 203-906-6			
INDEX 603-107-00-6			
Reg. no. 01-2119475100-52-XXXX			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained

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open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

España United Kingdom	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) EH40/2005 Workplace exposure limits (Third edition.published 2018)
8	
Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om
	arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
	United Kingdom Italia Norge

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EU O	EL EU	Directive (EU) 2	017/2398; Directiv	ve (EU) 2017/164	; Directive 2009/	161/EU; Direct	ive 2006/15/EC; Di	rective
ТІ	LV-ACGIH	ACGIH 2019	ective 2000/39/EC	; Directive 91/32	2/EEC.			
	GLYCOL MONOBUTYL E concentration - PNEC	THER						
				2		.0.		
Normal value in fre					mg			
Normal value in ma				0,2	mg			
	esh water sediment			7,7	mg			
	arine water sediment			0,77	-	/kg		
Normal value of ST				200	mg			
	e food chain (secondary poiso	ning)		111	-	/kg		
	e terrestrial compartment			0,47	mg	/kg		
Health - Derived	d no-effect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg bw/d		Systemic		
Inhalation				117 mg/m3				195 mg/m3
Skin				125 mg/kg bw/d				208 mg/kg bw/d
1,1'-IMINODI-2-F	PROPANOL concentration - PNEC							
Normal value in free				0,278	mg	/1		
Normal value in ma				0,028	mg			
	esh water sediment			2,33	-	/kg		
	arine water sediment			0,233	-	/kg		
				-	-			
Normal value of ST				15000	mg			
	e terrestrial compartment			0,303	mg	/kg		
Health - Derived	d no-effect level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure Oral	Acute local	Acute systemic	Chronic local	Chronic systemic 1,3 mg/kg	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				bw/d 3,9 mg/m3				6,4 mg/m3
Skin				6,3 mg/kg bw/d			0,12 mg/kg bw/d	5 mg/kg bw/c
2-(2-BUTOXYET Threshold Limit	HOXY)ETHANOL							
Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observa	uons	
VLA	ESP	67,5	10	101,2	15			
WEL	GBR	67,5	10	101,2	15			
VLEP	ITA	67,5	10	101,2	15			
TLV	NOR	68	10	- ,=				
VLE	PRT	67,5	10	101,2	15			
VLE	PKI	C, 10	10	101,2	GI			

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							Replaced Tevision. 1 (Date	u. 01/03/2019)
OEL	EU	67,5	10	101,2	15			
TLV-ACGIH		66	10					
Predicted no-effect concent	tration - PNEC							
Normal value in fresh water	r			1,1	mg	ı/I		
Normal value in marine wat	ter			0,11	mg	µ∕I		
Normal value for fresh wate	er sediment			4,4	mg	ı/kg		
Normal value for marine wa	ater sediment			0,44	mg	J/kg		
Normal value of STP micro	organisms			200	mg	ı/I		
Normal value for the food c	hain (secondary poisor	ning)		56	mg	J/kg		
Normal value for the terrest	trial compartment			0,32	mg	J/kg		
Health - Derived no-ef	fect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 5 mg/kg bw/d		systemic		systemic
Inhalation			40,5 mg/m3	40,5 mg/m3			67,5 mg/m3	67,5 mg/m3
Skin				50 mg/kg bw/d				83 mg/kg bw/d
DIETHYLENE GLYCOL	L MONOMETHYL E	THER						
Threshold Limit Value		THER TWA/8h		STEL/15min		Rema	arks / rvations	
Threshold Limit Value)		ppm	STEL/15min mg/m3	ppm			
Threshold Limit Value Type)	TWA/8h	ррт 10		ppm		rvations	
Threshold Limit Value Type VLA	Country	TWA/8h mg/m3			ppm	Obse	rvations	
Threshold Limit Value Type VLA WEL	Country ESP	TWA/8h mg/m3 50,1	10		ppm	Obse	rvations	
Threshold Limit Value Type VLA WEL VLEP	Country ESP GBR	TWA/8h mg/m3 50,1 50,1	10 10		ppm	Obse SKIN SKIN	rvations	
DIETHYLENE GLYCOL Threshold Limit Value Type VLA WEL VLEP TLV VLE	ESP GBR ITA	TWA/8h mg/m3 50,1 50,1 50,1	10 10 10		ppm	Obse SKIN SKIN SKIN	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE	ESP GBR ITA NOR	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50	10 10 10 10		ppm	Obse SKIN SKIN SKIN SKIN	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL	Country ESP GBR ITA NOR PRT EU	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50 50,1	10 10 10 10 10 10		ppm	Obse SKIN SKIN SKIN SKIN	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent	Country ESP GBR ITA NOR PRT EU EU tration - PNEC	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50 50,1	10 10 10 10 10 10		ppm	Obse SKIN SKIN SKIN SKIN SKIN	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water	Country ESP GBR ITA NOR PRT EU tration - PNEC r	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50 50,1	10 10 10 10 10 10	mg/m3		Obse SKIN SKIN SKIN SKIN SKIN	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value in marine wat	Country ESP GBR ITA NOR PRT EU tration - PNEC r ter	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50 50,1	10 10 10 10 10 10	mg/m3	mg	Obse SKIN SKIN SKIN SKIN SKIN	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value in marine water	Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50 50,1	10 10 10 10 10 10	mg/m3	mg	Obse SKIN SKIN SKIN SKIN SKIN VI	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for marine water Normal value for mar	Country Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment ater sediment	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50 50,1	10 10 10 10 10 10	mg/m3	mg	Obse SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN J/I J/kg	rvations	
Threshold Limit Value Type VLA VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for marine wat Normal value of STP micro	Country Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment ater sediment organisms	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50,1 50,1	10 10 10 10 10 10	mg/m3	mg mg mg mg mg mg	Obse SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN J/I J/kg	rvations	
Threshold Limit Value Type VLA VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for strp micro Normal value of STP micro Normal value for the food c	Country Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment ater sediment organisms chain (secondary poisor	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50,1 50,1	10 10 10 10 10 10	mg/m3	mg mg mg mg mg mg mg mg	Obse SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN y/l y/l y/l y/l	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV	Country Country ESP GBR ITA NOR PRT EU tration - PNEC r ter r r ter er sediment ater sediment ater sediment borganisms chain (secondary poisor trial compartment fect level - DNEL / I Effects on	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50,1 50,1 50,1	10 10 10 10 10 10	mg/m3	mg mg mg mg mg mg mg mg	Obse SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN J/I J/I J/kg J/I	rvations	
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for marine wat Normal value for marine wat Normal value for the short of the food content of the food of the terrest	ESP Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment ater sediment sorganisms chain (secondary poisor trial compartment fect level - DNEL / I	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50,1 50,1 50,1	10 10 10 10 10 10	mg/m3	mg mg mg mg mg mg mg mg	Obse SKIN SKIN SKIN SKIN SKIN SKIN y/I y/kg y/l y/kg y/kg y/kg	Chronic local	Chronic systemic
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for fresh water Normal value for the swater Normal value for the swater Normal value for the swater Normal value for the swater Normal value for the terrest Health - Derived no-effect	Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment organisms chain (secondary poisor trial compartment fect level - DNEL / I Effects on consumers	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50,1 50,1 50,1 50,1	10 10 10 10 10 10	mg/m3 12 1,2 44,4 0,44 10000 0,9 2,1 Chronic systemic 7,5 mg/kg	mg mg mg mg mg mg mg mg mg mg	Obse SKIN J/I J/I J/kg J/kg J/kg	Chronic local	Chronic systemic
Threshold Limit Value Type VLA WEL VLEP TLV VLE OEL Predicted no-effect concent Normal value in fresh water Normal value in marine wat Normal value for fresh water Normal value for the terrest Health - Derived no-effect Route of exposure	Country ESP GBR ITA NOR PRT EU tration - PNEC r ter er sediment organisms chain (secondary poisor trial compartment fect level - DNEL / I Effects on consumers	TWA/8h mg/m3 50,1 50,1 50,1 50,1 50,1 50,1 50,1 50,1	10 10 10 10 10 10	mg/m3	mg mg mg mg mg mg mg mg mg mg	Obse SKIN SKIN SKIN SKIN SKIN SKIN y/I y/kg y/l y/kg y/kg y/kg	Chronic local	

Legend:

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(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Eye protection: protective glasses with side shields Hand protection: gloves in butyl rubber, Neoprene ™ rubber or nitrile rubber. Body protection: neoprene ™ apron. Rubber boots.

3,6,9,12-TETRAOXAHEXADECAN-1-OLO

Eye protection: protective glasses with side shields Hand protection: gloves in butyl rubber, Neoprene ™ rubber or nitrile rubber. Body protection: neoprene ™ apron. Rubber boots.

1,1'-IMINODI-2-PROPANOL

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Respiratory protection:

Respiratory protection in case of dust formation. Combined filter for gases / vapors of organic compounds and solid and liquid particles (e.g. EN 14387 Type A-P2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged direct contact (Recommended: protection index 6, corresponding to> 480 minutes of permeation time according to EN 374):

for example. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm) and others

The manufacturer's instructions for use must be observed due to the wide variety of types.

Additional note: specifications are based on tests, literature data and information from glove manufacturers or derive from similar substances by analogy. Due to many conditions (eg temperature) it should be considered that the practical use of a chemical protective glove in practice can be much shorter than the breakthrough time determined through the test.

Eye protection:

Tightly sealed goggles (caged goggles) (eg EN 166) and face shield.

Body protection:

Body protection should be chosen based on activity and possible exposure, e.g. apron, protective boots, chemical protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

2-(2-BUTOXYETHOXY)ETHANOL

Gloves in butyl rubber, Neoprene ™ rubber or nitrile rubber.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Respiratory protection: Use a positive pressure respiratory mask if concentrations in the air could exceed occupational exposure standards Eye protection: protective glasses with side shields Hand protection: gloves in butyl rubber, Neoprene ™ rubber, Viton ™ or nitrile rubber.

Body protection: neoprene ™ apron. Rubber boots.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	clear liquid
Colour	straw yellow
Odour	characteristic
Odour threshold	Not available
pН	8-9
Melting point / freezing point	Not available
Initial boiling point	> 270 °C
Boiling range	270 °C
Flash point	> 140 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available

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Vapour density	Not available	
Relative density	1,04	
Solubility	insoluble in water	

Solubility	
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	> 200 °C
Decomposition temperature	Not available
Viscosity	12-16 mPas
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Stable under normal conditions. May form peroxides upon prolonged exposure to air and light.

2-(2-BUTOXYETHOXY)ETHANOL

May form peroxides upon prolonged exposure to air and light.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Stable under normal conditions. May form peroxides upon prolonged exposure to air and light.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

1,1'-IMINODI-2-PROPANOL

The progress of the reaction is exothermic. Reacts with halogenated compounds. Reacts with isocyanates. Reacts with oxidizing agents. Reacts with acid chlorides. Reacts with acids. Incompatible with acid chlorides and acid anhydrides.

2-(2-BUTOXYETHOXY)ETHANOL

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May react with: oxidising substances.May form peroxides with: oxygen.Develops hydrogen on contact with: aluminium.May form explosive mixtures with: air.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Reacts violently developing heat on contact with: alkaline metals, strong acids, strong oxidants, oleum. Fire hazard. Develops flammable gas on contact with: calcium hypochlorite. Develops hydrogen on contact with: aluminium.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

TRIETHYLENE GLYCOL MONOBUTYL ETHER

High temperature. Prolonged exposure to air / oxygen and light.

3,6,9,12-TETRAOXAHEXADECAN-1-OLO

High temperature

1,1'-IMINODI-2-PROPANOL

Extreme temperatures.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

high temperatures and sources of ignition. Prolonged exposure to air / oxygen and light.

DIETHYLENE GLYCOL MONOMETHYL ETHER

High temperatures and sources of ignition. Prolonged exposure to air / oxygen and light.

10.5. Incompatible materials

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Oxidizing agents.

3,6,9,12-TETRAOXAHEXADECAN-1-OLO

Oxidizing agents

1,1'-IMINODI-2-PROPANOL

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isocyanates, acid chlorides, acid anhydrides, acids, substances that form acids, oxidizing agents, nitrosating agents

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

Oxidizing agents.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Oxidizing agents.

10.6. Hazardous decomposition products

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Carbon oxides on combustion.

3,6,9,12-TETRAOXAHEXADECAN-1-OLO

Oxides of burning coals

1,1'-IMINODI-2-PROPANOL

Carbon oxides, nitrogen oxides, nitrous gases

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

Carbon oxides on combustion.

DIETHYLENE GLYCOL MONOMETHYL ETHER

When heated to decomposition releases: harsh fumes, zinc alloys.

Carbon oxides on combustion.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological

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effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

DIETHYLENE GLYCOL MONOMETHYL ETHER

LD50 (Oral) 5500 mg/kg Rat

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral) 3384 mg/kg Rat

LD50 (Dermal) 2700 mg/kg Rabbit

1,1'-IMINODI-2-PROPANOL

LD50 (Oral) > 2000 mg/kg

TRIETHYLENE GLYCOL MONOBUTYL ETHER

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Method: Estimate of the approximate LD50 value according to the internal BASF standard Reliability: 2 Species: Rat (US; male / female) Route of exposure: Oral Results: Not classified Method: Not indicated Reliability: 2 Species: Rabbit (New Zealand White; male) Route of exposure: Dermal Results: LD50 = 3540 mg / kg bw Bibliographic reference: Range finding toxicity data: List VI, Smyth HF, Carpenter CP, Weil CS, Pozzani UC, Striegel BS, (1962)

DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: Equivalent or similar to OECD 401 Reliability: 1 Species: Mouse (CD-1; male) Route of exposure: Oral Results: LD50 = 7128 mg / kg bw Method: OECD 403 Reliability: 2 Species: Mouse (Wistar; male / female) Route of exposure: Inhalation Results: Not classified Method: Equivalent or similar to OECD 402 Reliability: 1 Species: Rabbit (New Zealand White; male) Route of exposure: Dermal Results: LD50 = 9404 mg / kg bw

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Method: Not indicated Reliability: 2 Species: Rabbit (Vienna White) Route of exposure: Dermal Results: Not irritating

1,1'-IMINODI-2-PROPANOL

Method: OECD Guideline 404 Reliability: 1 Species: Rabbit (small white russians, Chbb-SPF) Route of exposure: Dermal Results: Not irritating

2-(2-BUTOXYETHOXY)ETHANOL

Method: OECD 404 Reliability: 2 Species: Rabbit (Small white Russian, Chbb-SPF) Route of exposure: Dermal Results: Slightly irritating

DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: Equivalent or similar to OECD 404

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Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: Not irritating

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

3,6,9,12-TETRAOXAHEXADECAN-1-OLO

Reliability: 1 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Category 2 irritation

1,1'-IMINODI-2-PROPANOL

Method: Isolated Rabbit Eye (IRE) Test Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Category 2 irritation

DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: Equivalent or similar to OECD 405 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Ocular Results: Not irritating

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Skin sensitization 3,6,9,12-TETRAOXAHEXADECAN-1-OLO

Method: Equivalent or similar to OECD Guideline 406 Reliability: 2 Species: guinea pig Route of exposure: Dermal Results: Not sensitizing

2-(2-BUTOXYETHOXY)ETHANOL

Method: Equivalent or similar to OECD 406 Reliability: 2 Species: guinea pig Route of exposure: Dermal Results: Not sensitizing

DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: OECD 406 Reliability: 1 Species: guinea pig (Pirbright-White; female) Route of exposure: Dermal

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Results: Not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

1,1'-IMINODI-2-PROPANOL

Method: Equivalent or similar to OECD Guideline 471-test in vitro Reliability: 2 Species: S. typhimurium TA 1535, TA 1537, TA 98 and TA 100 Results: Negative with and without metabolic activation

2-(2-BUTOXYETHOXY)ETHANOL

Method: Equivalent or similar to OECD 471 in vitro test Reliability: 2 Species: S. typhimurium Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 475 in vivo test Reliability: 2 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: Negative

DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: OECD 471 in vitro test Reliability: 1 Species: S. typhimurium, E. Coli Results: Negative with and without metabolic activation

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

1,1'-IMINODI-2-PROPANOL

Method: Equivalent or similar to OECD Guideline 414 Reliability: 2 Species: Rat (CRL: CD (SD)) Route of exposure: Oral Results: 1000 mg / kg bw / day

Adverse effects on sexual function and fertility DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: Equivalent or similar to OECD 416 Reliability: 1 Species: Mouse (CD-1; male / female) Route of exposure: Oral Results: NOAEL (fertility) = 1.25%

Adverse effects on development of the offspring 2-(2-BUTOXYETHOXY)ETHANOL

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Method: Equivalent or similar to OECD 414 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: NOAEL 1 000 mg / kg bw / day

DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: Equivalent or similar to OECD 414 Reliability: 2 Species: Rabbit (New Zealand White) Route of exposure: Dermal Results: NOAEL (development) = 250 mg / kg bw / day

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

2-(2-BUTOXYETHOXY)ETHANOL

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

2-(2-BUTOXYETHOXY)ETHANOL

Method: OECD 408 Reliability: 2 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: NOAEL 250 mg / kg bw / day Method: OECD 413 Reliability: 1 Species: Rat (Wistar; male / female) Route of exposure: Inhalation Results: NOAEL 14 ppm Method: Equivalent or similar to OECD 411 Reliability: 2 Species: Rat (Sprague-Dawley; male / female) Route of exposure: Dermal Results: NOAEL <200 mg / kg bw / day

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DIETHYLENE GLYCOL MONOMETHYL ETHER

Method: Equivalent or similar to OECD 407 Reliability: 2 Species: Rat (Albino; male) Route of exposure: Oral Results: NOAEL = 900 mg / kg bw / day Method: Equivalent or similar to OECD 413 Reliability: 2 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC> 1060 mg / m3 air Method: Equivalent or similar to OECD 411 Reliability: 2 Species: guinea pig (Hartley; male) Route of exposure: Dermal Results: NOAEL = 40 mg / kg bw / day

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

TRIETHYLENE GLYCOL MONOBUTYL ETHER	
LC50 - for Fish	2400 mg/l/96h
EC50 - for Crustacea	2210 mg/l/48h
EC50 - for Algae / Aquatic Plants	840 mg/l/72h
EC10 for Algae / Aquatic Plants	190 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	190 mg/l
1,1'-IMINODI-2-PROPANOL	
LC50 - for Fish	1446 mg/l/96h
EC10 for Algae / Aquatic Plants	219 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	219 mg/l
3,6,9,12-TETRAOXAHEXADECAN-1-OLO	
EC50 - for Crustacea	3200 mg/l/48h
12.2. Persistence and degradability	

TRIETHYLENE GLYCOL MONOBUTYL ETHER Easily degradable in water, 85% in 28 days. 3,6,9,12-TETRAOXAHEXADECAN-1-OLO Rapidly biodegradable, 76% in 28 days.

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I.1'-IMINODI-2-PROPANOL		
Quickly biodegradable, 94% in 28 days 2-(2-BUTOXYETHOXY)ETHANOL		
Rapidamente biodegradabile, 92% in 28 giorni.		
Easily degradable in water, 68% in 28 days.		
DIETHYLENE GLYCOL MONOMETHYL		
ETHER Solubility in water	1000 - 10000 mg/l	
Rapidly degradable		
2-(2-BUTOXYETHOXY)ETHANOL	1000 - 10000	
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable 2.3. Bioaccumulative potential		
DIETHYLENE GLYCOL MONOMETHYL		
ETHER Partition coefficient: n-octanol/water	-0.47	
	-,	
2-(2-BUTOXYETHOXY)ETHANOL		
Partition coefficient: n-octanol/water	1	
2.4. Mobility in soil		
nformation not available		
2.5. Results of PBT and vPvB assessment		
In the basis of available data, the product does not	contain any PRT or vPvR in percentage greater t	han 0 1%
On the basis of available data, the product does not	contain any PBT or vPvB in percentage greater t	han 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

TRIETHYLENE GLYCOL MONOBUTYL ETHER

Dispose of as for hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose of in accordance with all local regulations.

1,1'-IMINODI-2-PROPANOL

Incinerate in an appropriate incineration plant, observing the regulations of the local authorities.

It is not possible to specify a waste code compliant with the European waste catalog (EWC), due to the dependence on use.

The waste code in accordance with the European waste catalog (EWC) must be specified in collaboration with the agency / producer / disposal

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authorities	

UK regulations on environmental protection (Duty of Care) and changes must be noted (UK).

This product and all uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and Changes (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as much as possible; therefore it can be switched to recycling after being thoroughly cleaned.

2-(2-BUTOXYETHOXY)ETHANOL

Product disposal: dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations. Disposal of the container: empty the container completely. After emptying, vent to a safe place. Send to drum recovery or metal recovery.

DIETHYLENE GLYCOL MONOMETHYL ETHER

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose of in accordance with all local regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

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Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

<u>P</u>	<u>roduct</u> Point	3	
<u>c</u>	ontained substance		
	Point	55	2-(2- BUTOXYETHOXY)E THANOL Reg. no.: 01-2119475104-44- XXXX
	Point	54	DIETHYLENE GLYCOL MONOMETHYL ETHER Reg. no.: 01- 2119475100-52- XXXX
<u>s</u>	ubstances in Candidate List (Art. 59 R	EACH)	
С	n the basis of available data, the produ	uct does not contain any	SVHC in percentage greater than 0,1%.
<u>s</u>	Substances subject to authorisation (Annex XIV REACH)		
N	None		
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:			
None			
Substances subject to the Rotterdam Convention:			
None			
Substances subject to the Stockholm Convention:			
N	one		

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Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Repr. 2	Reproductive toxicity, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
H361d	Suspected of damaging the unborn child.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

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- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

02/03/04/08/09/10/11/12/13/15/16.