ADDITIVO: OPACIZZANTE IN PASTA OP,

Dated 26/03/2025

Printed on 26/03/2025

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Replaced revision:2 (Dated: 06/04/2023)

# Safety Data Sheet According to Annex II to REACH - Regulation (EU) 2020/878

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

#### 1.1. Product identifier

ADDITIVO: OPACIZZANTE IN PASTA OP, Product name

UFI: 2TK2-60XN-M00Q-4XD2

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Opacifying additive for screen inks. Intended use

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

**COMEC ITALIA SRL** Full address Piazzale del lavoro 149 District and Country 21044 Cavaria (VA) ITALIA

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini

## 1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni di Milano 02 66101029

(Niguarda Ca Granda - Milano) Centro Antiveleni di Pavia 0382 24444 (Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300

(Papa Giovanni XXIII - Bergamo) Centro Antiveleni di Verona 800 011858

(AOUI - Verona)

Centro Antiveleni di Firenze 055 7947819

(Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343

(Agostino Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000

(Umberto I - Roma)

Centro Antiveleni di Roma 06 68593726 (Ospedale pediatrico Bambino Gesu - Roma) Centro Antiveleni di Napoli 081 5453333

(Antonio Cardarelli - Napoli)

Centro Antiveleni di Foggia 800 183459 (Azienda ospedaliera universitaria - Foggia)

### **SECTION 2. Hazards identification**

## 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and

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supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Reproductive toxicity, category 2 H361 Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Warning

Hazard statements:

**H361** Suspected of damaging fertility or the unborn child.

**H336** May cause drowsiness or dizziness.

EUH208 Contains: Fatty acids, C18, unsaturated, dimers, products. Reaction with N, N-dimethyl-1, 3propanediamine and 1,3-

propanediamine

May produce an allergic reaction.

Precautionary statements:

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

P261 Avoid breathing dust, gas or vapours.

P201 Obtain special instructions before use.

P312 Call a POISON CENTRE or a doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains: DIACETONE ALCOHOL

1-METHOXY-2-PROPANOL

2-METHOXY-1-METHYLETHYL ACETATE 2-ETHOXY-1-METHYLETHYL ACETATE

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

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The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

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

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

**DIPROPYLEN GLYCOL** MONOMETHYL ETHER

INDEX - $30 \le x < 32.5$  Substance with a community workplace exposure limit.

EC 252-104-2 CAS 34590-94-8

REACH Reg. 01-2119450011-

60xxxx

1-METHOXY-2-PROPANOL

 $22.5 \le x < 24$ Flam. Liq. 3 H226, STOT SE 3 H336 INDEX 603-064-00-3

EC 203-539-1 CAS 107-98-2

REACH Reg. 01-2119457435-

35xxxx 2-METHOXY-1-METHYLETHYL

**ACETATE** 

INDEX 607-195-00-7  $7 \le x < 8$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29-

XXXX

2-ETHOXY-1-METHYLETHYL

**ACETATE** 

INDEX 603-177-00-8  $5 \le x < 6$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 259-370-9 CAS 54839-24-6

REACH Reg. 01-2119475116-

39xxxx

**DIACETONE ALCOHOL** 

INDEX 603-016-00-1 Flam. Liq. 3 H226, Repr. 2 H361, Eye Irrit. 2 H319, STOT SE 3 H335  $4 \le x < 4,5$ 

EC 204-626-7 CAS 123-42-2

REACH Reg. 01-2119473975-

21xxxx

2-BUTOXYETHANOL

INDEX 603-014-00-0  $0.8 \le x < 0.9$ Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0 LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3 mg/l/4h

CAS 111-76-2

REACH Reg. 01-2119475108-36-

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Fatty acids, C18, unsaturated, dimers, products. Reaction with N, N-dimethyl-1, 3propanediamine and 1,3-propanediamine

INDEX - 0,42 ≤ x < 0,44 Skin Sens. 1 H317

EC 605-296-0 CAS 162627-17-0

**AROMATIC HYDROCARBONS, C9** 

INDEX - 0,1 ≤ x < 0,12 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066

EC 918-668-5

CAS -

REACH Reg. 01-2119455851-35

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF exposed or concerned: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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## **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 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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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## 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

## 2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

## 7.3. Specific end use(s)

Information not available

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

## 8.1. Control parameters

## Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC: Directive 2000/39/EC: Directive 98/24/EC: Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

## DIPROPYLEN GLYCOL MONOMETHYL ETHER

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	308	50			SKIN		
TLV	CZE	270	43,74	550	89,1	SKIN		
AGW	DEU	310	50	310	50		11	
MAK	DEU	310	50	310	50			

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TLV	DNK	309		50			SKIN	E	
VLA	ESP	308		50			SKIN		
VLEP	FRA	308		50			SKIN		
AK	HUN	308		50					
VLEP	ITA	308		50			SKIN		
TGG	NLD	300							
VLE	PRT	308		50			SKIN		
NDS/NDSCh	POL	240		4	480		SKIN		
TLV	ROU	308		50			SKIN		
NGV/KGV	SWE	300		50 4	150 (C)	75 (C)	SKIN		
ESD	TUR	308		50			SKIN		
WEL	GBR	308		50			SKIN		
OEL	EU	308		50			SKIN		
TLV-ACGIH				50					
Predicted no-effect co		EC							
Normal value in fresh					19	mg/l			
Normal value in marir					1,9	mg/l			
Normal value for freel	h water sediment	_			70,2	mg/k	g		
Normal value for mar					7,02	mg/k			
Normal value for mar	terrestrial compar	tment			7,02 2,74	mg/k			
Normal value for mari Normal value for the I Health - Derived r	terrestrial compar no-effect level Eff cor	tment - DNEL / DN ects on asumers			2,74	mg/k Effects on workers	sg .		
Normal value for mari Normal value for the I Health - Derived r	terrestrial compar no-effect level Eff cor	tment - DNEL / DN ects on	<b>MEL</b> Acute systemic	Chronic local	2,74  Chronic systemic	mg/k		Chronic local	Chronic systemic
Normal value for mari Normal value for the t Health - Derived r Route of exposure	terrestrial compar no-effect level Eff cor	tment - DNEL / DN ects on asumers		Chronic local VND	2,74  Chronic systemic 1,67 mg/kg	mg/k Effects on workers	Acute	Chronic local	
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Normal value for mari Normal value for the the second of t	terrestrial compar no-effect level Eff cor Act	tment - DNEL / DN ects on asumers		VND VND	2,74  Chronic systemic 1,67 mg/kg bw/d 37,2 mg/m3	mg/k Effects on workers	Acute	VND	systemic 310 mg/m 65 mg/kg
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Normal value for mari Normal value for the I Health - Derived r Route of exposure Oral Inhalation Skin 1-METHOXY-2-PR Threshold Limit V Type	ROPANOL/alue	tment - DNEL / DN ects on issumers ute local  TWA/81 mg/m3	Acute systemic	VND VND VND SS ppm n 100	2,74  Chronic systemic 1,67 mg/kg bw/d 37,2 mg/m3  15 mg/kg bw/d  STEL/15min mg/m3	mg/k Effects on workers Acute local	Acute systemic  Remarks Observa	VND VND	systemic 310 mg/m 65 mg/kg
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Normal value for mari Normal value for the I Health - Derived r Route of exposure Oral Inhalation Skin  1-METHOXY-2-PR Threshold Limit V TLV TLV AGW MAK TLV VLA VLEP VLEP	ROPANOL/alue Country  BGR CZE DEU DNK ESP FRA ITA NLD	TWA/8I mg/m3 375 270 370 370 375 188 375 375	Acute systemic	VND VND VND VND VND  SS  ppm n 100 : 72,09 : 100 : 100 : 50 : 100	2,74  Chronic systemic  1,67 mg/kg bw/d  37,2 mg/m3  15 mg/kg bw/d  STEL/15min  mg/m3  568  550  740  740  740  568  568  568  575  568	ppm 150 146,85 200 200 150 150 100	Acute systemic  Remarks Observat  SKIN SKIN SKIN SKIN	VND VND  / ions	systemic 310 mg/m 65 mg/kg
Normal value for mari Normal value for the I Health - Derived r Route of exposure Oral Inhalation Skin  1-METHOXY-2-PR Threshold Limit V TLV AGW MAK TLV VLEP VLEP TGG	ROPANOL /alue Country  BGR CZE DEU DEU DNK ESP FRA ITA NLD PRT	TWA/8t mg/m3 375 270 370 370 185 375 188 375 375	Acute systemic	VND VND VND VND VND  SS  ppm n 100	2,74  Chronic systemic 1,67 mg/kg bw/d 37,2 mg/m3 15 mg/kg bw/d  STEL/15min mg/m3 568 550 740 740 568 568 568 375 568 568 563 568	ppm 150 146,85 200 200 150 100	Acute systemic  Remarks Observat  SKIN SKIN SKIN SKIN SKIN SKIN	VND VND  / ions	systemic 310 mg/m 65 mg/kg
	ROPANOL/alue Country  BGR CZE DEU DNK ESP FRA ITA NLD	TWA/8I mg/m3 375 270 370 370 375 188 375 375	Acute systemic	VND VND VND VND VND VND  SS  ppm n 100	2,74  Chronic systemic  1,67 mg/kg bw/d  37,2 mg/m3  15 mg/kg bw/d  STEL/15min  mg/m3  568  550  740  740  740  568  568  568  575  568	ppm 150 146,85 200 200 150 150 100	Acute systemic  Remarks Observat  SKIN SKIN SKIN SKIN SKIN	VND VND  / ions	systemic 310 mg/m 65 mg/kg

#### Revision nr. 3 **COMEC ITALIA SRL** Dated 26/03/2025 Printed on 26/03/2025 ADDITIVO: OPACIZZANTE IN PASTA OP, Page n. 8/24 Replaced revision:2 (Dated: 06/04/2023) NGV/KGV SWE 150 SKIN 190 50 568 FSD TUR 375 100 SKIN 568 150 WFI GBR 375 100 560 150 SKIN OEL ΕU 375 100 568 150 SKIN TLV-ACGIH 184 50 368 100 Predicted no-effect concentration - PNEC Normal value in fresh water 10 mg/l Normal value in marine water mg/l Normal value for fresh water sediment 41,6 mg/l 4,17 Normal value for marine water sediment mg/kg Normal value for water, intermittent release 100 mg/l Normal value of STP microorganisms 100 mg/l Normal value for the terrestrial compartment 2 47 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic VND 3,3 mg/kg 3,3 mg/kg bw/d Inhalation 553,5 mg/m3 VND VND 43,9 mg/m3 535,5 mg/m3 VND 535,5 mg/m3 369 mg/m3 VND 50,6 mg/kg 18,1 mg/kg **HYDROM HYDROPHONE SILICATE Threshold Limit Value** Remarks / TWA/8h Type Country STEL/15min Observations mg/m3 ppm mg/m3 ppm AGW DEU 4 INHAL MAK DEU 4 INHAL 2-METHOXY-1-METHYLETHYL ACETATE **Threshold Limit Value** Туре Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm TLV BGR 275 50 550 100 SKIN TLV CZE 270 49,14 550 100,1 SKIN AGW DEU 270 50 270 50 MAK DEU 270 50 270 50 275 DNK 550 TLV 50 100 SKIN Ε VLA ESP 275 50 550 100 SKIN VLEP FRA 275 50 550 100 SKIN 275 50 550 100 SKIN VLEP ITA TGG NLD 550 VLE PRT 275 50 550 100 SKIN NDS/NDSCh POL 260 520 SKIN

TLV

NGV/KGV

ROU

SWE

275

275

50

50

550

550

100

100

SKIN

SKIN

Systemic			CC	MEC ITAL	IA SRL				Revision nr. 3  Dated 26/03/2025	
VEL   GBR   274   60   648   100   SKIN		ADDITI	VO: O	PACIZZAN	ITE IN P	ASTA OP,			Page n. 9/24	ed: 06/04/2023
VEL   GBR   274   60   648   100   SKIN										
Pedicided nonefficiation - PNEC	ESD	TUR	275		50	550	100	SKIN	١	
Predicted no-effect concentration - PNEC	WEL	GBR	274		50	548	100	SKIN	N	
Normal value in freeh water   0,835 mg/l	OEL	EU	275		50	550	100	SKIN	١	
Normal value in marine water	Predicted no-effect	concentration - PNE	С							
Normal value for fresh water sediment	Normal value in fres	sh water				0,635	mç	g/l		
Normal value for marine water sediment	Normal value in ma	rine water				0,0635	mg	g/l		
Normal value for marine water sediment	Normal value for fre	esh water sediment				3,29	mo	g/kg		
Normal value for water, intermittent release   6,35 mg/l	Normal value for ma	 arine water sediment	<u> </u>							
Normal value of STP microorganisms						·				
Normal value for the terrestrial compartment   0,29 mg/kg		-				<u> </u>		-		
Effects on   Content   C		· ·						-		
Effects on constumers   Chronic construents   Chronic construent						0,29	mç	g/kg		
Acute of exposure	Health - Derived	Effec	cts on	/IEL						
Oral   VND	Route of exposure			Acute systemic	Chronic loca					Chronic
Inhalation	Oral				VND			systemic		systemic
Skin	Inhalation				33 mg/m3		550 mg/m3		VND	275 mg/m3
HYDROM HYDROPHONE SILICATE   Throshold Limit Value   TWA/8h   STEL/15min   Remarks / Observations   RESP   RE							- Coo mg/mo			
Mak	Threshold Limit	Value		h		STEL/15min				
AGW DEU 4 INHAL  MAK DEU 0,02 0,16 RESP  2-ETHOXY-1-METHYLETHYL ACETATE  Threshold Limit Value  Type Country TWA/8h STEL/15min Remarks / Observations  mg/m3 ppm mg/m3 ppm  AGW DEU 120 20 240 40 SKIN 14  MAK DEU 120 20 240 40 SKIN Hinweis  Predicted no-effect concentration - PNEC  Normal value in fresh water 2 mg/l  Normal value in marine water 0,8 mg/l  Normal value for fresh water sediment 8,2 mg/kg  Normal value for water, intermittent release 2 mg/l  Normal value for water, intermittent release 2 mg/l  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers Chronic local Chronic local Acute Chronic local Chronic systemic systemic systemic systemic			ma/m3		ppm	ma/m3	nnm	Obse	ervations	
MAK   DEU   4	AGW	DELL			rr		FF	INH	Δ1	
### ACK DEU 0,02 0,16 RESP  ### ACETHOXY-1-METHYLETHYL ACETATE   Threshold Limit Value										
2-ETHOXY-1-METHYLETHYL ACETATE						0.16				
Mak DEU 120 20 240 40 SKIN 14  Mak DEU 120 20 240 40 SKIN Hinweis  Predicted no-effect concentration - PNEC  Normal value in fresh water  Normal value in marine water  Normal value for fresh water sediment  Normal value for marine water sediment  Normal value for water, intermittent release  2 mg/l  Normal value of STP microorganisms  62,5 mg/kg  Normal value for the food chain (secondary poisoning)  Normal value for the terrestrial compartment  0,6 mg/kg  Realth - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure  Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic systemic systemic										
Mag/m3   ppm   mg/m3   ppm	Туре	Country	TWA/8	h		STEL/15min				
MAK DEU 120 20 240 40 SKIN Hinweis  Predicted no-effect concentration - PNEC  Normal value in fresh water 2 mg/l  Normal value in marine water 0,8 mg/l  Normal value for fresh water sediment 8,2 mg/kg  Normal value for marine water sediment 0,6 mg/kg  Normal value for water, intermittent release 2 mg/l  Normal value of STP microorganisms 62,5 mg/kg  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic systemic			mg/m3		ppm	mg/m3	ppm			
Predicted no-effect concentration - PNEC  Normal value in fresh water 2 mg/l  Normal value in marine water 0,8 mg/l  Normal value for fresh water sediment 8,2 mg/kg  Normal value for marine water sediment 0,6 mg/kg  Normal value for water, intermittent release 2 mg/l  Normal value of STP microorganisms 62,5 mg/kg  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic systemic										
Normal value in fresh water 2 mg/l  Normal value in marine water 0,8 mg/l  Normal value for fresh water sediment 8,2 mg/kg  Normal value for marine water sediment 0,6 mg/kg  Normal value for water, intermittent release 2 mg/l  Normal value of STP microorganisms 62,5 mg/kg  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic systemic systemic systemic systemic systemic					20	240	40	SKIN	N Hinweis	
Normal value in marine water 0,8 mg/l  Normal value for fresh water sediment 8,2 mg/kg  Normal value for marine water sediment 0,6 mg/kg  Normal value for water, intermittent release 2 mg/l  Normal value of STP microorganisms 62,5 mg/kg  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers Effects on workers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic Systemic systemic						2		~ /I		
Normal value for fresh water sediment  8,2 mg/kg  Normal value for marine water sediment  0,6 mg/kg  Normal value for water, intermittent release  2 mg/l  Normal value of STP microorganisms  62,5 mg/kg  Normal value for the food chain (secondary poisoning)  117 mg/kg  Normal value for the terrestrial compartment  0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure  Acute local Acute systemic Chronic local Chronic systemic systemic systemic								-		
Normal value for marine water sediment  0,6 mg/kg  Normal value for water, intermittent release  2 mg/l  Normal value of STP microorganisms  62,5 mg/kg  Normal value for the food chain (secondary poisoning)  117 mg/kg  Normal value for the terrestrial compartment  0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure  Acute local Acute systemic Chronic local Chronic systemic systemic Systemic  Chronic systemic  0,6 mg/kg  Effects on workers  Chronic local Chronic systemic Systemic Systemic						·	mç	g/l		
Normal value for water, intermittent release 2 mg/l  Normal value of STP microorganisms 62,5 mg/kg  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers Effects on workers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic Systemic Systemic Systemic	Normal value for fre	sh water sediment				8,2	m	g/kg		
Normal value of STP microorganisms 62,5 mg/kg  Normal value for the food chain (secondary poisoning) 117 mg/kg  Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic	Normal value for ma	arine water sediment				0,6	mç	g/kg		
Normal value for the food chain (secondary poisoning)  117 mg/kg  Normal value for the terrestrial compartment  0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure  Acute local Acute systemic Chronic local Chronic systemic Systemic Systemic Systemic Systemic	Normal value for wa	ater, intermittent relea	ase			2	mç	g/I		
Normal value for the terrestrial compartment 0,6 mg/kg  Health - Derived no-effect level - DNEL / DMEL  Effects on consumers Effects on workers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic systemic	Normal value of ST	P microorganisms				62,5	mg	g/kg		
Health - Derived no-effect level - DNEL / DMEL  Effects on consumers  Route of exposure  Acute local Acute systemic Chronic local Chronic systemic	Normal value for the	e food chain (second	ary poisonir	ıg)		117	mg	g/kg		
Effects on consumers Effects on workers  Route of exposure Acute local Acute systemic Chronic local Chronic systemic systemic systemic systemic systemic	Normal value for the	e terrestrial compartn	nent			0,6	mg	g/kg		
Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic	Health - Derived	Effec	cts on	<b>IEL</b>						
	Route of exposure			Acute systemic	Chronic loca	I Chronic		Acute	Chronic local	Chronic
	Oral				VND	systemic 13,1 mg/kg		systemic		systemic

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Inhalation		VND	365 mg/m3	VND	181 mg/m3	VND	608 mg/m3	VND	302 mg/m3
Skin			<u> </u>	VND	62 mg/kg		- J	VND	103 mg/kg
DIACETONE AL									
Threshold Limit Type	Value Country	TWA/8h			STEL/15min		Remarks /	1	
туре	Country						Observation		
		mg/m3		ppm	mg/m3	ppm			
TLV	CZE	200		41,4	300	62,1			
AGW	DEU	96		20	192	40	SKIN		
MAK	DEU	96		20	192	40	SKIN		
TLV	DNK	240		50					
VLA	ESP	241		50					
VLEP	FRA	240		50					
TGG	NLD	120					SKIN		
NDS/NDSCh	POL	240							
TLV	ROU	150		32	250	53			
NGV/KGV	SWE	120		25	240 (C)	50 (C)			
ESD	TUR	240		50					
WEL	GBR	241		50	362	75			
TLV-ACGIH	ОБІХ	238		50					
Predicted no-effect		PNEC							
Normal value in fres					2	mg/			
Normal value in ma	rine water				0,2	mg/	<u> </u>		
Normal value for fre	sh water sedime	ent			9,06	mg/	kg		
Normal value for ma	arine water sedir	ment			0,91	mg/	kg		
Normal value for wa	ter, intermittent	release			1	mg/	l		
Normal value of STI	P microorganism	าร			82	mg/	I		
Normal value for the	e terrestrial com	partment			0,63	mg/	kg		
Health - Derived		Effects on	IEL			Effects on workers			
Route of exposure		consumers Acute local	Acute systemic	Chronic loca	Chronic	Acute local	Acute	Chronic local	Chronic
Oral					systemic 3,4 mg/kg		systemic		systemic
Inhalation					11,8 mg/m3				66,4 mg/m3
Skin					3,4 mg/kg				9,4 mg/kg
SKIII					3,4 mg/kg				9,4 mg/kg
Polymer based of Threshold Limit		oounds							
Type	Country	TWA/8h	1		STEL/15min		Remarks /		
		mg/m3		ppm	mg/m3	ppm	Observation	ons	
VLEP	ITA	2		1	- Ing/IIIO	PPIII			
Health - Derived			IEI	'					
neaitii - Derived		Effects on consumers	IEL			Effects on workers			
		Acute local	Acute systemic	Chronic loca	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Route of exposure									

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1,2,3 trimetilbenzene

1,2,3 trimetilbenzene

Туре	Value Country	TWA/8h			STEL/15min		Remarks /		
		mg/m3		ppm	mg/m3	ppm	Observation	S	
TLV	BGR	98		20	246	50	SKIN		
TLV	CZE	100		20,4	200	40,8	SKIN		
AGW	DEU	49		10	98	20	SKIN		
MAK TLV	DEU DNK	49 98		10 20	98 246	20 50	SKIN SKIN	Hinweis E	
VLA	ESP	98		20	245	50	SKIN		
VLEP	FRA	49		10	246	50	SKIN		
VLEP	ITA	98		20	246	50	SKIN		
TGG	NLD	100			246		SKIN		
VLE	PRT	98		20	246	50	SKIN		
NDS/NDSCh	POL	98			200		SKIN		
TLV	ROU	98		20	246	50	SKIN		
NGV/KGV	SWE	50		10	246	50	SKIN		
ESD	TUR	98		20	246	50	SKIN		
WEL	GBR	123		25	246	50	SKIN		
OEL	EU	98		20	246	50	SKIN		
TLV-ACGIH		97		20					
Predicted no-effect	concentration - PNE	C							
Normal value in fres					8,8	mg	1/1		
Normal value in mar					0,88	mg			
Normal value for fre					34,6	mg			
Normal value for ma		t			3,46		ı/kg		
Normal value of STF					463	mg	=		
Normal value for the		m ant							
	'				2,8	mg	ı/kg		
Health - Derived	Effe	ects on sumers	EL			Effects on workers			
Route of exposure	Acu	te local	Acute systemic	Chronic local	systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			13,4 mg/kg		3,2 mg/kg				
Inhalation	123	mg/m3	123 mg/m3		49 mg/m3	50 ppm	135 ppm		20 ppm
Skin			44,5 mg/kg		38 mg/kg		89 mg/kg		75 mg/kg
AROMATIC HYD Threshold Limit		C9							
Type	Country	TWA/8h			STEL/15min		Remarks /		
		mg/m3		ppm	mg/m3	ppm	Observation	S	

20

25

Health - Derived no-effect level - DNEL / DMEL
Effects on

EU

OEL

TLV-ACGIH

consumers

100

Effects on workers

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Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	11 mg/kg				11 mg/kg bw/d
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin	•		VND	11 mg/kg	•	•	VND	25 mg/kg

Legend:

(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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

## 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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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 ISO 16321).

#### RESPIRATORY PROTECTION

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. 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).

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.

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

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

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**Properties** Value Information

> 120 °C

Appearance liquid matt white Colour lightly perceptible Odour Melting point / freezing point not available

Initial boiling point Flammability not available Lower explosive limit not available Upper explosive limit not available

Flash point 81 °C

Auto-ignition temperature not available Decomposition temperature not available not available Kinematic viscosity not available

Solubility partially soluble in water

Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density not available Relative vapour density not available Particle characteristics not applicable

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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.

DIPROPYLEN GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

1-METHOXY-2-PROPANOL

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

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## 2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

DIACETONE ALCOHOL

Decomposes at temperatures above 90°C/194°F.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

#### 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

DIPROPYLEN GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

DIACETONE ALCOHOL

Risk of explosion on contact with: air,sources of heat.May react dangerously with: alkaline metals,amines,oxidising agents,acids.

2-BUTOXYETHANOL

May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.

AROMATIC HYDROCARBONS, C9

May react with: strong oxidising agents.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

DIPROPYLEN GLYCOL MONOMETHYL ETHER

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Avoid exposure to: sources of heat. Possibility of explosion.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

DIACETONE ALCOHOL

Avoid exposure to: light, sources of heat, naked flames.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

#### 10.5. Incompatible materials

1-METHOXY-2-PROPANOL

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

2-METHOXY-1-METHYLETHYL ACETATE

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

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

2-BUTOXYETHANOL

May develop: hydrogen.

# **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 effects of exposure to the product.

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

## 2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

DIACETONE ALCOHOL

WORKERS: inhalation: contact with the skin.

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

#### 1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product. Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

#### 2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

#### DIACETONE ALCOHOL

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

#### Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)
ATE (Dermal) of the mixture:

Not classified (no significant component)

DIPROPYLEN GLYCOL MONOMETHYL ETHER

LD50 (Dermal): 19020 mg/kg Coniglio / Rabbit LD50 (Oral): 5660 mg/kg Ratto / Rat

1-METHOXY-2-PROPANOL

 LD50 (Dermal):
 13000 mg/kg Rabbit

 LD50 (Oral):
 4000 mg/kg Rat

 LC50 (Inhalation vapours):
 54,6 mg/l/4h Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Coniglio / Rabbit LD50 (Oral): 8500 mg/kg Ratto / Rat LC50 (Inhalation vapours): 4345 ppm/6h Ratto / Rat

HYDROM HYDROPHONE SILICATE

LD50 (Dermal): > 5000 mg/kg Rat

LD50 (Oral): > 3300 mg/kg Ratto / Rat - Nessuna mortalità

LC50 (Inhalation mists/powders): > 0,139 mg/l/1h Ratto / Rat - Nessuna mortalità - Conc. massima

raggiungibile

2-ETHOXY-1-METHYLETHYL ACETATE

 LD50 (Dermal):
 13,42 ml/Kg Coniglio / Rabbit

 LD50 (Oral):
 > 5000 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 6,99 mg/l/4h Rat

DIACETONE ALCOHOL

LD50 (Dermal): > 1875 mg/kg Ratto / Rat

LD50 (Oral): 3002 mg/kg Rat

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LC50 (Inhalation vapours): > 7,6 mg/l Ratto / Rat

2-BUTOXYETHANOL

LD50 (Oral): 1200 mg/kg Guinea pig

LC50 (Inhalation vapours): 3 mg/l/4h Rat

AROMATIC HYDROCARBONS, C9

 LD50 (Dermal):
 > 3160 mg/kg Ratto / Rat

 LD50 (Oral):
 3492 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 > 6193 mg/l/4h Ratto / Rat

## SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Fatty acids, C18, unsaturated, dimers, products. Reaction with N, N-dimethyl-1, 3propanediamine and 1,3-propanediamine

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

## STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## **SECTION 12. Ecological information**

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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

AROMATIC HYDROCARBONS, C9

LC50 - for Fish > 9,2 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 3,2 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 2,9 mg/l/72h Pseudokirchneriella subcapitata

DIPROPYLEN GLYCOL MONOMETHYL

ETHER

LC50 - for Fish > 10000 mg/l/96h Pimephales promelas

EC50 - for Crustacea 1919 mg/l/48h Daphnia Magna

EC10 for Algae / Aquatic Plants > 969 mg/l/48h

HYDROM HYDROPHONE SILICATE

LC50 - for Fish > 10000 mg/l/96h Brachyadanio rerio EC50 - for Crustacea > 1000 mg/l/24h 24h - Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

EC50 - for Crustacea > 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Selenastrum capricornutum OECD 201

Chronic NOEC for Fish 47,5 mg/l Oryzias latipes 14 gg OECD 204
Chronic NOEC for Crustacea 100 mg/l Dapnia magna 21 gg OECD 202

2-ETHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish 140 mg/l/48h Oncorhynchus mykiss (test 48h)

EC50 - for Crustacea 110 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Scenedesmus subspicatus

2-BUTOXYETHANOL

LC50 - for Fish 1474 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 1550 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 1840 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Fish > 100 mg/l 21 d
Chronic NOEC for Crustacea 100 mg/l 21 d

DIACETONE ALCOHOL

LC50 - for Fish > 100 mg/l/96h Oryzias latipes
EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants < 1000 mg/l/72h Pseudokirchneriella subcapitata

1-METHOXY-2-PROPANOL

LC50 - for Fish > 20800 mg/l/96h Pimephales promelas

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EC50 - for Crustacea > 21100 mg/l/48h Daphnia magna, prova statica

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Scenedesmus subspicatus, prova statica

12.2. Persistence and degradability

HYDROM HYDROPHONE SILICATE Degradability: information not available

AROMATIC HYDROCARBONS, C9

Rapidly degradable

DIPROPYLEN GLYCOL MONOMETHYL

**ETHER** 

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

OECD 301 F - 75% 10 d - 79% 28 d HYDROM HYDROPHONE SILICATE

0,1 - 100 mg/l Solubility in water

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

OECD GI 301F 83% 10 d

2-ETHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

Activated sludge - 89%/15 d - 100%/28 d 2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

DIACETONE ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable AFNOR T 90-312 70% 10 d 1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

DIPROPYLEN GLYCOL MONOMETHYL

**FTHFR** 

Partition coefficient: n-octanol/water 0,0043

HYDROM HYDROPHONE SILICATE

Partition coefficient: n-octanol/water 0,53

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2 BCF 100

2-ETHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 0,76

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BCF 3,162

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

DIACETONE ALCOHOL

Partition coefficient: n-octanol/water -0,09

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

2-ETHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

## 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. 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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

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

## **SECTION 14. Transport information**

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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 or ID 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
not applicable
14.7. Maritime transport in bulk according to IMO instruments
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/EU: None
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

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<u>Product</u>

Point 3 - 40

Contained substance

Point 75 2-methoxypropanol

Point 75 2-BUTOXYETHANOL REACH Reg.:

01-2119475108-36-xxxx

Point 75 DIACETONE ALCOHOL REACH

Reg.: 01-2119473975-21xxxx

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

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:

Flam. Liq. 3 Flammable liquid, category 3

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Repr. 2 Reproductive toxicity, category 2

Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Asp. Tox. 1 Aspiration hazard, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H226 Flammable liquid and vapour.

H361 Suspected of damaging fertility or the unborn child.

H331 Toxic if inhaled.
H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

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#### GENERAL BIBLIOGRAPHY

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) 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)
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  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
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- 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.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

For information on any exposure scenarios of the substances present in the mixture, contact Sericom Italia srl.

Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 07 / 08 / 10 / 11 / 13 / 15 / 16.