Revision nr. 1 **COMEC ITALIA SRL** Dated 20/03/2025 First compilation Printed on 28/03/2025 **DILUENTE: PLA 34.** Page n. 1/19

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

DILUENTE: PLA 34. Product name UFI: K314-D03G-P003-F32C

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

Pad printing thinner. 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:

Flammable liquid, category 3 H226 Flammable liquid and vapour.

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:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P370+P378 In case of fire: use chemical powder, CO2 or dry send to extinguish.

P261 Avoid breathing dust, gas or vapours.

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: 2-METHOXY-1-METHYLETHYL ACETATE

2-ETHOXY-1-METHYLETHYL ACETATE

N-BUTYL 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%.

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

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SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

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

2-ETHOXY-1-METHYLETHYL

ACETATE

INDEX 603-177-00-8 $32,5 \le x < 35$ Flam. Liq. 3 H226, STOT SE 3 H336

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

REACH Reg. 01-2119475116-

39xxxx

2-METHOXY-1-METHYLETHYL

ACETATE

INDEX 607-195-00-7 $30 \le x < 32,5$ Flam. Liq. 3 H226, STOT SE 3 H336

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

REACH Reg. 01-2119475791-29-

BUTYLGLYCOL ACETATE

INDEX 607-038-00-2 $19.5 \le x < 21$ Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332

EC 203-933-3 ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11

REACH Reg. 01-2119475112-

N-BUTYL ACETATE

INDEX 607-025-00-1 $13,5 \le x < 15$ Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1 CAS 123-86-4

CAS 112-07-2

REACH Reg. 01-2119485493-29

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,

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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

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

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

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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.

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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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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.

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

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VND

103 mg/kg

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décembre 2021

Italia

Decreto Legislativo 9 Aprile 2008, n.81

Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste

lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

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

Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie

w sprawie najwyższych dopuszczalnych stężeń i nateżeń czynników szkodliwych dla zdrowia w

środowisku pracy

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea

și completarea hotărârii guvernului nr. 1.093/2006

Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS

2018:1)

Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733;

20.10.2023 / 32345.

EH40/2005 Workplace exposure limits (Fourth Edition 2020) United Kingdom 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.

TI V-ACGIH **ACGIH 2023**

2-ETHOXY-1-METHYLETHYL ACETATE

Nederland

Portugal

Polska

România

Sverige

Türkiye

ITA

NLD

PRT

POL

ROU

SWE

TUR

GBR

Skin

Threshold Lir	nit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation	าร
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	120	20	240	40	SKIN	14
MAK	DEU	120	20	240	40	SKIN	Hinweis
Predicted no-effe	ect concentration - PNE	C					
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 sedimen	t		0,6	mg/kg		
Normal value for	water, intermittent rele	ease		2	mg/l		
Normal value of	STP microorganisms			62,5	mg/kg		
Normal value for	the food chain (second	dary poisoning)		117	mg/kg		
Normal value for	the terrestrial compart	ment		0,6	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 systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	13,1 mg/kg				
Inhalation	VND	365 mg/m3	VND	181 mg/m3	VND	608 mg/m3	VND	302 mg/m3

62 mg/kg

VND

2-METHOXY-1-METHYLETHYL ACETATE

Threshold Li	mit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation	s	
		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			
TLV	DNK	275	50	550	100	SKIN	E	
VLA	ESP	275	50	550	100	SKIN		

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VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550						
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSCh	POL	260		520		SKIN		
TLV	ROU	275	50	550	100	SKIN		
NGV/KGV	SWE	275	50	550	100	SKIN		
ESD	TUR	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect co	oncentration - PNE	С						
Normal value in fresh	n water			0,635	mg/l			
Normal value in mari	ine water			0,0635	mg/l			
Normal value for fres	sh water sediment			3,29	mg/kg			
Normal value for mar	rine water sediment	t		0,329	mg/l			
Normal value for water	ter, intermittent rele	ase		6,35	mg/l			
Normal value of STP microorganisms 100 mg/l								
Normal value of STP	microorganisms			100	mg/i			
Normal value of STP Normal value for the		nent		0,29	mg/l mg/kg			
Normal value for the Health - Derived I	terrestrial compartr no-effect level - Effect cons	DNEL / DMEL cts on sumers		0,29	mg/kg Effects on workers			
Normal value for the Health - Derived I Route of exposure	terrestrial compartr no-effect level - Effect cons	DNEL / DMEL octs on		0,29 Chronic systemic	mg/kg Effects on workers Acute local A	cute /stemic	Chronic local	Chronic systemic
Normal value for the Health - Derived I Route of exposure Oral	terrestrial compartr no-effect level - Effect cons	DNEL / DMEL cts on sumers	VND	Chronic systemic 1,67 mg/kg	mg/kg Effects on workers Acute local A		•	systemic
Normal value for the Health - Derived I Route of exposure Oral Inhalation	terrestrial compartr no-effect level - Effect cons	DNEL / DMEL cts on sumers	VND 33 mg/m3	Chronic systemic 1,67 mg/kg 33 mg/m3	mg/kg Effects on workers Acute local A		VND	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral	terrestrial compartr no-effect level - Effect cons	DNEL / DMEL cts on sumers	VND	Chronic systemic 1,67 mg/kg	mg/kg Effects on workers Acute local A		•	systemic
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit V	terrestrial compartr no-effect level - Effect cons Acut	DNEL / DMEL cts on sumers te local Acute systemic	VND 33 mg/m3 VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg	mg/kg Effects on workers Acute local A	ystemic	VND	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL	terrestrial compartr no-effect level - Effect cons Acut	DNEL / DMEL cts on sumers	VND 33 mg/m3 VND	Chronic systemic 1,67 mg/kg 33 mg/m3	mg/kg Effects on workers Acute local A	/stemic	VND VND	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit V	terrestrial compartr no-effect level - Effect cons Acut	DNEL / DMEL cts on sumers te local Acute systemic	VND 33 mg/m3 VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg	mg/kg Effects on workers Acute local A	/stemic	VND	systemic 275 mg/m3
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Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit V	terrestrial compartr no-effect level - Effect cons Acut ACETATE Value Country	DNEL / DMEL cts on sumers te local Acute systemic TWA/8h mg/m3	VND 33 mg/m3 VND ppm 20	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg	mg/kg Effects on workers Acute local A sy 550 mg/m3	Remar Observ	VND VND	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit I Type TLV TLV AGW	ACETATE Value Country BGR CZE DEU	TWA/8h mg/m3 133 130 65	VND 33 mg/m3 VND ppm 20 19,5	0,29 Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 300 130	mg/kg Effects on workers Acute local A sylvariant Acute local Sylvariant Acute local A sylvariant Acute local A sylvariant Acute local A sylvariant Acute local	Remar Observ SKIN SKIN	VND VND rks / vations	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit I Type TLV TLV AGW	ACETATE Value Country BGR CZE	DNEL / DMEL cts on sumers te local Acute systemic TWA/8h mg/m3 133 130	VND 33 mg/m3 VND ppm 20 19,5	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 330	mg/kg Effects on workers Acute local A sy 550 mg/m3	Remar Observ SKIN	VND VND rks / vations	systemic 275 mg/m3
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Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit \ Type TLV TLV AGW MAK TLV VLA VLEP	ACETATE Value Country BGR CZE DEU DEU DNK ESP FRA	TWA/8h mg/m3 133 130 65 66 134 133 66,5 133	VND 33 mg/m3 VND ppm 20 19,5 10 10 20 20 10	0,29 Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 333 333 333 333 333 333 333 333	mg/kg Effects on workers Acute local A sy 550 mg/m3 ppm 50 45 20 20 50 50	Remar Observ SKIN SKIN SKIN SKIN SKIN SKIN	VND VND rks / vations 11 Hinweis	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit \ Type TLV TLV AGW MAK TLV VLA VLEP VLEP TGG	ACETATE Value Country BGR CZE DEU DEU DNK ESP FRA ITA NLD	TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135	VND 33 mg/m3 VND ppm 20 19,5 10 20 20 10 20	0,29 Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 330 130 130 132 333 333 33	mg/kg Effects on workers Acute local A sy 550 mg/m3 ppm 50 45 20 20 50 50 50	Remar Observ SKIN SKIN SKIN SKIN SKIN SKIN	VND VND rks / vations 11 Hinweis	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit I Type TLV AGW MAK TLV VLA VLEP TGG VLE	ACETATE Value Country BGR CZE DEU DNK ESP FRA ITA NLD PRT	TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 133	VND 33 mg/m3 VND ppm 20 19,5 10 20 20 10 20	0,29 Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 333 333 333 333 333 333 333 333	mg/kg Effects on workers Acute local A sy 550 mg/m3 ppm 50 45 20 20 50 50 50	Remar Observ SKIN SKIN SKIN SKIN SKIN SKIN SKIN	VND VND rks / vations 11 Hinweis	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL / Threshold Limit \ Type TLV TLV AGW MAK TLV VLEP VLEP TGG VLE NDS/NDSCh	ACETATE Value Country BGR CZE DEU DEU DNK ESP FRA ITA NLD PRT POL	TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 130	VND 33 mg/m3 VND ppm 20 19,5 10 10 20 20 20 20	0,29 Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 333 333 333 333 333 333 333 333	mg/kg Effects on workers Acute local A sy 550 mg/m3 ppm 50 45 20 20 50 50 50	Remar Observ SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	VND VND rks / vations 11 Hinweis	systemic 275 mg/m3
Normal value for the Health - Derived I Route of exposure Oral Inhalation Skin BUTYLGLYCOL A Threshold Limit I Type TLV TLV AGW MAK TLV VLA VLEP TGG VLE NDS/NDSCh TLV	ACETATE Value Country BGR CZE DEU DNK ESP FRA ITA NLD PRT POL ROU	TWA/8h mg/m3 133 130 65 66 134 133 66,5 133 135 130 130 133	VND 33 mg/m3 VND ppm 20 19,5 10 10 20 20 20 20 10	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg STEL/15min mg/m3 333 333 333 333 333 333 333 333 333	mg/kg Effects on workers Acute local A sy 550 mg/m3 ppm 50 45 20 20 50 50 50 50	Remar Observed SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKIN	VND VND rks / vations 11 Hinweis	systemic 275 mg/m3

Revision nr. 1 **COMEC ITALIA SRL** Dated 20/03/2025 First compilation Printed on 28/03/2025 **DILUENTE: PLA 34.** Page n. 8/19 OEL SKIN EU 133 20 333 50 20 TLV-ACGIH 131 Predicted no-effect concentration - PNEC Normal value in fresh water 0,304 mg/l Normal value in marine water 0,03 mg/l Normal value for fresh water sediment 2.03 mg/l 0,203 Normal value for marine water sediment mg/l Normal value for water, intermittent release 0.56 mg/l Normal value of STP microorganisms 90 mg/l Normal value for the food chain (secondary poisoning) 60 mg/kg Normal value for the terrestrial compartment 0,415 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Chronic local Chronic Acute Chronic local Chronic Route of exposure Acute systemic Acute local Acute local systemic systemic systemic VND VND Oral 36 mg/kg/d 4,3 mg/kg/d Inhalation 200 mg/m3 499 mg/m3 VND 80 mg/m3 333 mg/m3 773 mg/m3 VND 133 mg/m3 72 mg/kg bw/d VND 102 mg/kg/d 102 mg/kg/d 27 mg/kg/d VND 169 mg/kg/d **N-BUTYL ACETATE Threshold Limit Value** STEL/15min TWA/8h Country Remarks / Type Observations mg/m3 ppm mg/m3 ppm TLV BGR 710 950 CZE 723 TLV 241 AGW DEU 300 62 600 124 DEU 480 960 200 MAK 100 TLV DNK 241 50 723 150 Ε ESP 241 50 723 VLA 150 VLEP FRA 241 50 723 150 VLEP ITA 241 50 723 150 TGG NLD 150 VLE PRT 241 50 723 150 NDS/NDSCh POL 240 720 ROU 241 723 TLV 50 150 SWE NGV/KGV 241 50 723 (C) 150 (C) ESD TUR 241 50 723 150 WEL GBR 724 150 966 200 OEL EU 241 50 723 150 TLV-ACGIH 50 150 Predicted no-effect concentration - PNEC Normal value in fresh water 0,18 mg/l Normal value in marine water 0,01 mg/l mg/kg Normal value for fresh water sediment 0.98

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Normal value for marine water sediment	0,09	mg/kg
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,09	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
Inhalation	859,7 mg/m3	895,7 mg/m3	102,34 mg/m3	102,34	960 mg/m3	960 mg/m3	480 mg/m3	480 mg/m3
				mg/m3				

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.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

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.

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Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Appearance liauid Colour colourless Odour typical of solvent Melting point / freezing point not available > 125 °C Initial boiling point Flammability not available Lower explosive limit not available Upper explosive limit not available 23 ≤ T ≤ 60 °C Flash point Auto-ignition temperature not available Decomposition temperature not available not available

Solubility partially soluble in water

not available

Partition coefficient: n-octanol/water not available
Vapour pressure 3,13 mmHg

Density and/or relative density 0,94

Relative vapour density not available
Particle characteristics not applicable

9.2. Other information

Kinematic viscosity

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.

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.

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N-BUTYL ACETATE

Decomposes on contact with: water.

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.

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

N-BUTYL ACETATE

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

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.

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

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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

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

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

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).

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture: >2000 mg/kg

2-ETHOXY-1-METHYLETHYL ACETATE

13.42 ml/Kg Coniglio / Rabbit LD50 (Dermal): > 5000 mg/kg Ratto / Rat I D50 (Oral): LC50 (Inhalation vapours): 6,99 mg/l/4h Rat

2-METHOXY-1-METHYLETHYL ACETATE

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

BUTYLGLYCOL ACETATE

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LC50 (Inhalation vapours): > 2,66 mg/l/4h Rat

ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

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N-BUTYL ACETATE

LD50 (Dermal):

LD50 (Oral): LC50 (Inhalation vapours): > 14000 mg/kg Rabbit

> 10000 mg/kg Rat

> 21 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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

Does not meet the classification criteria for this hazard class

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

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

2-METHOXY-1-METHYLETHYL ACETATE

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

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

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

47,5 mg/l Oryzias latipes 14 gg OECD 204 Chronic NOEC for Fish 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)

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

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

N-BUTYL ACETATE

LC50 - for Fish 18 mg/l/96h Pimephales promelas EC50 - for Crustacea 44 mg/l/48h Daphnia Magna

EC10 for Algae / Aquatic Plants 674,7 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Crustacea 23 mg/l 21d/ Daphnia magna

BUTYLGLYCOL ACETATE

LC50 - for Fish > 20 mg/l/96h Fish 20-40 mg/kg (48h) 145 mg/l/24h Daphnia Magna (24h) EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 1570 mg/l/72h Scenedesmus subspicatus

12.2. Persistence and degradability

2-METHOXY-1-METHYLETHYL ACETATE

> 10000 mg/l Solubility in water

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

N-BUTYL ACETATE

Solubility in water 5,3 mg/l

Rapidly degradable

BUTYLGLYCOL ACETATE

Solubility in water 15000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

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 BCF 3,162

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N-BUTYL ACETATE

Partition coefficient: n-octanol/water

2,3

BCF

15,3

BUTYLGLYCOL ACETATE

Partition coefficient: n-octanol/water

1,51

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

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

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

l 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.

Waste transportation may be subject to ADR restrictions.

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

14.1. UN number or ID number

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ADR / RID, IMDG, IATA:

UN 1993

14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (2-ETHOXY-1-METHYLETHYL ACETATE; 2-METHOXY-1-METHYLETHYL

ACETATE)

IMDG: FLAMMABLE LIQUID, N.O.S. (2-ETHOXY-1-METHYLETHYL ACETATE; 2-METHOXY-1-METHYLETHYL

ACETATE)

FLAMMABLE LIQUID, N.O.S. (2-ETHOXY-1-METHYLETHYL ACETATE; 2-METHOXY-1-METHYLETHYL IATA:

ACETATE)

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO

IMDG: not marine pollutant

IATA:

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Tunnel Quantities: 5 restriction code: (D/E)

Special provision: 274, 601

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5

IATA: Cargo: Maximum

quantity: 220

Passengers:

Maximum quantity: 60 L

Special provision: А3 Packaging instructions: 366

Packaging instructions:

355

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

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

Product

Point 3 - 40

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

Acute Tox. 4 Acute toxicity, category 4

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

H226 Flammable liquid and vapour.

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H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

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).

GENERAL BIBLIOGRAPHY

- Regulation (EC) 1907/2006 (REACH) of the European Parliament
 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
- Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EŬ) 2019/Ì148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

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- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
- 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI 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

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.