PLT 4G: 1080, 1081, 1082, 1083, TP,

Revision nr. 6 Dated 15/11/2022

Printed on 15/11/2022

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Replaced revision:5 (Dated: 11/01/2021)

Safety Data Sheet
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

PLT 4G: 1080, 1081, 1082, 1083, TP, Product name

UFI: 1S92-20FY-F00S-P369

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

Intended use Pad printing ink.

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 OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) -

CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

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 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. Serious eye damage, category 1 Causes serious eye damage. H318 Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects. Hazardous to the aquatic environment, chronic toxicity, H412

category 3

2.2. Label elements

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

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Hazard pictograms:







Signal words: Danger

Hazard statements:

Flammable liquid and vapour. H226 H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H412

Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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

Immediately call a POISON CENTER or a doctor. P310

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

P261 Avoid breathing dust, gas or vapours.

Contains: CYCLOHEXANONE

2-METHOXY-1-METHYLETHYL ACETATE Hydrocarbons, C10, aromatics, <1% naphtalene

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%.

SECTION 3. Composition/information on ingredients

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer Reaction product of BPA; possible contamination < 0.05%

3.2. Mixtures

Contains:

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

2-METHOXY-1-METHYLETHYL

ACETATE

INDEX 607-195-00-7 $18,5 \le x < 20$ Flam. Liq. 3 H226, STOT SE 3 H336

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

REACH Reg. 01-2119475791-29-

XXXX

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BUTYLGLYCOL ACETATE

INDEX 607-038-00-2 18 ≤ x < 19,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332

EC 203-933-3 LD50 Oral: 1880 mg/kg, LD50 Dermal: 1500 mg/kg, STA Inhalation vapours:

11 mg/l

CAS 112-07-2

REACH Reg. 01-2119475112-

47xxxx

CYCLOHEXANONE

INDEX 606-010-00-7 5 ≤ x < 6 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4

H332, Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1 LD50 Oral: 1535 mg/kg, LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours:

11 mg/l/4h

CAS 108-94-1

REACH Reg. 01-2119453616-35-

XXXX

Hydrocarbons, C10, aromatics,

<1% naphtalene

INDEX - $3 \le x < 3.5$ Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066

EC 918-811-1

CAS -

REACH Reg. 01-2119463583-34-

XXXX

AROMATIC HYDROCARBONS, C9

INDEX - 0,9 ≤ x < 1 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336,

Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI

to the CLP Regulation: P

EC 918-668-5

CAS -

REACH Reg. 01-2119455851-35-

XXXX
4,4'-ISOPROPYLIDENEDIPHENOL

NDEV 604 020 00 0

INDEX 604-030-00-0 $0 \le x < 0.01$ Repr. 1B H360F, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317,

Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10

EC 201-245-8 CAS 80-05-7

REACH Reg. 2119457856-23-xxxx

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

SECTION 4. First aid measures

4.1. Description of first aid measures

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

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

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Information not available

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.

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.

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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.

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 č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
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 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
INLE	Hodonand	lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-l ⁱ mite 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
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 (EÚ) 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 2021

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	

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ΓLV	CZE	270	49,14	550	100,1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
TLV	DNK	275	50			SKIN	E	
VLA	ESP	275	50	550	100	SKIN		
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 concentra	tion - PNEC							
Normal value in fresh water				0,635	mg	1/l		
Normal value in marine water				0,0635	mg	1/ I		
Normal value for fresh water s	sediment			3,29	mg	ı/kg		
Normal value for marine wate	r sediment			0,329	mg	J/I		
Normal value for water, interm	nittent release			6,35	mg	J/ I		
Normal value of STP microorg	ganisms			100	mg	j/l		
Normal value for the terrestria	al compartment			0,29	mg	ı/kg		
Health - Derived no-effe	ct level - DNEL / [OMEL				-		
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 1,67 mg/kg		systemic		systemic
nhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
Skin			VND	54,8 mg/kg			VND	153,5 mg/k
				- 1, - 1.1g.1.g				
BUTYLGLYCOL ACETAT	TE							
Threshold Limit Value		TMA		OTC: ' :			,	
Гуре	Country	TWA/8h		STEL/15min		Remark Observa		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	133	20	333	50	SKIN		
ΓLV	CZE	130	19,5	300	45	SKIN		
AGW MAK	DEU DEU	65 66	10 10	130 (C) 132	20 (C) 20	SKIN SKIN	11 Hinweis	
TLV	DNK	134	20	102	20	SKIN	Hinweis E	
/LA	ESP	133	20	333	50	SKIN		
/LEP	FRA	66,5	10	333	50			
/LEP	ITA	133	20	333	50	SKIN		
rgg	NLD	135		333		SKIN		
VLE	PRT	133	20	333	50	SKIN		
	1 131	100	20	000	50	OILIN		

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NDS/NDSCh	POL	100		300		SKIN			
TLV	ROU	133	20	333	50	SKIN			
NGV/KGV	SWE	70	10	333	50	SKIN			
ESD	TUR	133	20	333	50	SKIN			
WEL	GBR	133	20	332	50	SKIN			
OEL	EU	133	20	333	50	SKIN			
TLV-ACGIH		131	20						
Predicted no-effect concentra	ation - PNEC								
Normal value in fresh water				0,304	mg	/I			
Normal value in marine water	Г			0,03	mg	/I			
Normal value for fresh water	sediment			2,03	mg	/I			
Normal value for marine wate	er sediment			0,203	mg	/I			
Normal value for water, interr	nittent release			0,56	mg	/I			
Normal value of STP microor	ganisms			90	mg	/I			
Normal value for the food cha	ain (secondary poison	ing)		60	mg	/kg			
Normal value for the terrestria	al compartment			0,415	mg	/kg/d			
Health Daringdus of									
neaith - Derived no-effe	ct level - DNEL / D Effects on	DMEL			Effects on				
			Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic	
Route of exposure	Effects on consumers Acute local	Acute systemic		systemic	workers	Acute systemic	Chronic local	Chronic systemic	
Route of exposure Oral	Effects on consumers Acute local VND	Acute systemic 36 mg/kg/d	VND	systemic 4,3 mg/kg/d	workers Acute local	systemic		systemic	
Route of exposure Oral	Effects on consumers Acute local	Acute systemic		systemic	workers		Chronic local VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation	Effects on consumers Acute local VND	Acute systemic 36 mg/kg/d 499 mg/m3	VND	systemic 4,3 mg/kg/d 80 mg/m3	workers Acute local 333 mg/m3	systemic 773 mg/m3	VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE	Effects on consumers Acute local VND	Acute systemic 36 mg/kg/d 499 mg/m3	VND	systemic 4,3 mg/kg/d 80 mg/m3	workers Acute local 333 mg/m3	systemic 773 mg/m3	VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value	Effects on consumers Acute local VND 200 mg/m3	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d	VND	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d	workers Acute local 333 mg/m3	systemic 773 mg/m3 27 mg/kg/d	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value	Effects on consumers Acute local VND	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h	VND VND VND	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min	workers Acute local 333 mg/m3 102 mg/kg/d	systemic 773 mg/m3	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type	Effects on consumers Acute local VND 200 mg/m3 Country	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3	VND VND VND	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3	workers Acute local 333 mg/m3 102 mg/kg/d ppm	773 mg/m3 27 mg/kg/d Remarks / Observation	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type	Effects on consumers Acute local VND 200 mg/m3 Country	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8	VND VND VND 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20	773 mg/m3 27 mg/kg/d Remarks observation	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40	VND VND VND ppm 10 9,8	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196	773 mg/m3 27 mg/kg/d Remarks of Observation SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80	VND VND VND 10 9,8 20	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20	773 mg/m3 27 mg/kg/d Remarks Observation SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW TLV	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41	VND VND VND ppm 10 9,8 20 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20	773 mg/m3 27 mg/kg/d Remarks Observation SKIN SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Dral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW TLV VLA	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41	VND VND VND VND ppm 10 9,8 20 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20	773 mg/m3 27 mg/kg/d Remarks Observation SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW TLV VLA	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41 41 40,8	VND VND VND VND 10 9,8 20 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 82 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20 20	773 mg/m3 27 mg/kg/d Remarks , Observation SKIN SKIN SKIN SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41	VND VND VND VND ppm 10 9,8 20 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 82 81,6 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20	systemic 773 mg/m3 27 mg/kg/d Remarks / Observation SKIN SKIN SKIN SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41 41 40,8	VND VND VND VND 10 9,8 20 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 82 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20 20	773 mg/m3 27 mg/kg/d Remarks , Observation SKIN SKIN SKIN SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Dral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV AGW TLV VLA VLEP VLEP	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41 41 40,8	VND VND VND VND 10 9,8 20 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 82 81,6 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20 20	systemic 773 mg/m3 27 mg/kg/d Remarks / Observation SKIN SKIN SKIN SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV TLV AGW TLV VLA VLEP VLEP TGG	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA ITA NLD	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41 41 40,8 40,8	VND VND VND VND 10 9,8 20 10 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 81,6 81,6 81,6 50	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20 20 20	systemic 773 mg/m3 27 mg/kg/d Remarks Observation SKIN SKIN SKIN SKIN SKIN SKIN SKIN	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV AGW TLV VLA VLEP VLEP TGG VLE NDS/NDSCh TLV	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA ITA NLD PRT	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41 41 40,8 40,8	VND VND VND VND 10 9,8 20 10 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 81,6 81,6 50 81,6	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20 20 20	Remarks / Observation SKIN SKIN SKIN SKIN SKIN SKIN SKIN SKI	VND VND	systemic 133 mg/m3	
Route of exposure Oral Inhalation Skin CYCLOHEXANONE Threshold Limit Value Type TLV TLV TLV TLV VLA VLEP VLEP TGG VLE NDS/NDSCh	Effects on consumers Acute local VND 200 mg/m3 Country BGR CZE DEU DNK ESP FRA ITA NLD PRT POL	Acute systemic 36 mg/kg/d 499 mg/m3 72 mg/kg bw/d TWA/8h mg/m3 40,8 40 80 41 41,8 40,8 40,8	VND VND VND VND VND 10 9,8 20 10 10 10 10	systemic 4,3 mg/kg/d 80 mg/m3 102 mg/kg/d STEL/15min mg/m3 81,6 80 80 82 81,6 81,6 50 81,6 80	workers Acute local 333 mg/m3 102 mg/kg/d ppm 20 196 20 20 20 20	Remarks / Observation SKIN SKIN	VND VND	systemic	

WEL

OEL

TLV-ACGIH

GBR

EU

41

40,8

80

10

10

20

82

81,6

201

20

20

50

SKIN

SKIN

SKIN

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Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				0,1	mç	g/l		
Normal value in marine water	r			0,01	mç	g/l		
Normal value for fresh water	sediment			0,512	mç	g/kg		
Normal value for marine water	er sediment			0,0512	mg	g/kg		
Normal value for water, interr	mittent release			0,329	mg	g/l		
Normal value of STP microor	ganisms		10	mç	g/l			
Normal value for the terrestric	0,0435	mç	g/kg					
Health - Derived no-effe	Effects on	DMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		•		systemic 1,5 mg/kg		systemic		systemic
				bw/d				
Inhalation			VND	10 mg/m3			VND	40 mg/m3
Skin			VND	1 mg/kg bw/d			VND	4 mg/kg bw/
Hydrocarbons, C10, aro Health - Derived no-effe	ct level - DNEL / D Effects on				Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Noute of exposure								
<u> </u>		,	VND	systemic 7.5 mg/kg/d		systemic		systemic
Oral		,	VND	7,5 mg/kg/d		systemic	VND	•
Oral Inhalation Skin		,	VND VND VND			systemic	VND VND	151 mg/m3 12,5 mg/kg/s
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value	ĺ		VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d			VND	151 mg/m3
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value	RBONS, C9 Country	TWA/8h	VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min		systemic Remark Observa	VND	151 mg/m3
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type	ĺ		VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d	ppm	Remark	VND	151 mg/m3
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type	Country	TWA/8h mg/m3	VND VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min	ppm	Remark	VND	151 mg/m3
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL	Country	TWA/8h mg/m3	VND VND ppm 20 20	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min	ppm	Remark	VND ass / ations 1,2,3 trim	151 mg/m3 12,5 mg/kg/s retilbenzene
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH	Country	TWA/8h mg/m3 100 100	VND VND ppm 20	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min	ppm	Remark	VND ass / ations 1,2,3 trim	151 mg/m3 12,5 mg/kg/v
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH	ITA EU ct level - DNEL / E Effects on	TWA/8h mg/m3 100 100	VND VND ppm 20 20	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min	Effects on	Remark	VND ass / ations 1,2,3 trim	151 mg/m3 12,5 mg/kg/s retilbenzene
Dral nhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP DEL TLV-ACGIH Health - Derived no-effe	Country ITA EU cct level - DNEL / D	TWA/8h mg/m3 100 100	VND VND ppm 20 20	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3		Remark Observa	VND ass / ations 1,2,3 trim	151 mg/m3 12,5 mg/kg/d letilbenzene letilbenzene letilbenzene
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH Health - Derived no-effe	Country ITA EU ct level - DNEL / E Effects on consumers	TWA/8h mg/m3 100 100	VND VND ppm 20 20 25	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3	Effects on workers	Remark Observa	VND 4.5.8 / ations 1,2,3 trim 1,2,3 trim 1,2,3 trim	151 mg/m3 12,5 mg/kg/d netilbenzene netilbenzene netilbenzene netilbenzene systemic 11 mg/kg
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH Health - Derived no-effe Route of exposure Oral	Country ITA EU ct level - DNEL / E Effects on consumers	TWA/8h mg/m3 100 100	VND VND ppm 20 20 25 Chronic local	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3	Effects on workers	Remark Observa	VND 4.5.8 / ations 1,2,3 trim 1,2,3 trim 1,2,3 trim	151 mg/m3 12,5 mg/kg/ netilbenzene netilbenzene netilbenzene netilbenzene systemic
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH Health - Derived no-effe Route of exposure Oral Inhalation	Country ITA EU ct level - DNEL / E Effects on consumers	TWA/8h mg/m3 100 100	VND VND ppm 20 20 25 Chronic local VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 Chronic systemic 11 mg/kg	Effects on workers	Remark Observa	VND 1,2,3 trim 1,2,3 trim 1,2,3 trim Chronic local	151 mg/m3 12,5 mg/kg/s netilbenzene netilbenzene netilbenzene systemic 11 mg/kg bw/d
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH Health - Derived no-effe Route of exposure Oral Inhalation Skin	ITA EU ct level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 100 100	PPM 20 20 25 Chronic local VND VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 Chronic systemic 11 mg/kg 32 mg/m3	Effects on workers	Remark Observa	VND 1,2,3 trim 1,2,3 trim 1,2,3 trim VND	151 mg/m3 12,5 mg/kg/ netilbenzene
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH Health - Derived no-effe Route of exposure Oral Inhalation Skin HYDROM HYDROPHON Threshold Limit Value	ITA EU ct level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 100 100	PPM 20 20 25 Chronic local VND VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 Chronic systemic 11 mg/kg 32 mg/m3	Effects on workers	Remark Observa Acute systemic	VND 1,2,3 trim 1,2,3 trim 1,2,3 trim VND VND VND	151 mg/m3 12,5 mg/kg/m netilbenzene
Oral Inhalation Skin AROMATIC HYDROCAR Threshold Limit Value Type VLEP OEL TLV-ACGIH Health - Derived no-effe Route of exposure Oral Inhalation Skin HYDROM HYDROPHON Threshold Limit Value	ITA EU ct level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 100 100 DMEL Acute systemic	PPM 20 20 25 Chronic local VND VND VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg STEL/15min	Effects on workers Acute local	Remark Observa Acute systemic	VND 1,2,3 trim 1,2,3 trim 1,2,3 trim VND VND VND	151 mg/m3 12,5 mg/kg/m netilbenzene
Oral Inhalation	ITA EU ct level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 100 100 DMEL Acute systemic	PPM 20 20 25 Chronic local VND VND	7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg	Effects on workers	Remark Observa Acute systemic	VND 1,2,3 trim 1,2,3 trim 1,2,3 trim VND VND VND	151 mg/m3 12,5 mg/kg/m netilbenzene

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Traduci da: Indonesiano								
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,0032	mg	ı/I		
Normal value in marine water				0,0032	mg	ı/I		
Normal value for fresh water sed	liment			15,6	mg	ı/kg		
Normal value for water, intermitte		0,0032	mg	ı/I				
Normal value of STP microorgan	35	mg	ı/I					
Normal value for the terrestrial co	0,865	mg	ı/kg/d					
Health - Derived no-effect I	level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		1,3 mg/kg bw/d		systemic		systemic		systemic
nhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d
4,4'-ISOPROPYLIDENEDIP Threshold Limit Value	HENOL							
Type	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observati	ons	
TLV	BGR	2				INHAL		
TLV	CZE	2		5		INHAL		
AGW	DEU	5		5 (C)		INHAL		
TLV	DNK	2					E	
VLEP	FRA	2						
VLEP	ITA	2				INHAL		
VLEP	ITA	2				SKIN		
TGG	NLD	2				INHAL		
VLE	PRT	2				INHAL		
NDS/NDSCh	POL	2				INHAL		
TLV	ROU	2				INHAL		
ESD	TUR	10				11417/12		
WEL	GBR	2						
OEL OEL	EU	2				INHAL		
OEL Predicted no-effect concentration						IINΠAL		
	I-FINEC			0.019	,	·//		
Normal value in fresh water				0,018	mg			
Normal value in marine water				0,016	mg			
Normal value of STP microorganisms				320	mg			
Normal value for the terrestrial co		NACT.		3,7	mg	ı/kg		
Health - Derived no-effect I	Effects on	JMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral						0,05 mg/kg bw/d		0,05 mg/kg bw/d

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Skin

0,7 mg/kg bw/d

0,7 mg/kg bw/d 1,4 mg/kg bw/d 1,4 mg/kg bw/d

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 (see standard EN 374).

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

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

SKIN PROTECTION

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

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 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information

Appearance liquid

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Colour various

Odour characteristic of solvent

Melting point / freezing point not available Initial boiling point not available 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 Kinematic viscosity not available Solubility insoluble in water not available Partition coefficient: n-octanol/water Vapour pressure not available

Density and/or relative density 1,04

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

VOC (Directive 2010/75/EU) 46,85 % - 488,03 g/litre VOC (volatile carbon) 28,86 % - 300,63 g/litre

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.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

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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.

CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

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.

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

Hydrocarbons, C10, aromatics, <1% naphtalene Specific target organ toxicity (STOT) - single exposure: NOAEC> 600 mg / kg Inhalation. Rat

Metabolism, toxicokinetics, mechanism of action and other information

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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.

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).

Interactive effects

Information not available

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

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

 $LD50 \ (Dermal): > 2000 \ mg/kg \ Ratto \ / \ Rat \\ LD50 \ (Oral): > 2000 \ mg/kg \ Ratto \ / \ Rat$

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

BUTYLGLYCOL ACETATE

LD50 (Dermal): 1500 mg/kg Coniglio / Rabbit LD50 (Oral): 1880 mg/kg Ratto / Rat LC50 (Inhalation vapours): 0,4 mg/l/4h Ratto - Rat

STA (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)

CYCLOHEXANONE

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LD50 (Dermal): 1100 mg/kg 794 - 3160 / Coniglio / Rabbit

LD50 (Oral): 1535 mg/kg Ratto / Rat LC50 (Inhalation vapours): 11 mg/l/4h Ratto / Rat (4h)

Hydrocarbons, C10, aromatics, <1% naphtalene

 LD50 (Dermal):
 > 2000 mg/kg Coniglio / Rabbit

 LD50 (Oral):
 6318 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 > 4688 mg/kg/4h Ratto / 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

4,4'-ISOPROPYLIDENEDIPHENOL

 LD50 (Dermal):
 3000 mg/kg Rabbit

 LD50 (Oral):
 5000 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

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

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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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity**

Hydrocarbons, C10, aromatics, <1%

naphtalene

LC50 - for Fish > 2 mg/l/96h

EC50 - for Crustacea > 3 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1 mg/l/72h

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

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

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Chronic NOEC for Crustacea

100 mg/l Dapnia magna 21 gg OECD 202

CYCLOHEXANONE

LC50 - for Fish 527 mg/l/96h 527 - 732 / Pimephales promelas

EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

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

BUTYLGLYCOL ACETATE

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

4.4'-ISOPROPYLIDENEDIPHENOL

LC50 - for Fish 9,4 mg/l/96h Menidia menidia EC50 - for Crustacea 10,2 mg/l/48h Daphnia magna Chronic NOEC for Fish 0,016 mg/l Pimephales promelas

Chronic NOEC for Crustacea 1,8 mg/l Daphnia magna

12.2. Persistence and degradability

Hydrocarbons, C10, aromatics, <1%

naphtalene Solubility in water

immiscibile in H2O mg/l

Rapidly degradable

AROMATIC HYDROCARBONS, C9

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable OECD GI 301F 83% 10 d **CYCLOHEXANONE**

Solubility in water 86 mg/l

Rapidly degradable BUTYLGLYCOL ACETATE

Solubility in water 15000 mg/l

Rapidly degradable

4,4'-ISOPROPYLIDENEDIPHENOL

Solubility in water 301 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE

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

CYCLOHEXANONE

0,86 Partition coefficient: n-octanol/water

BUTYLGLYCOL ACETATE

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Partition coefficient: n-octanol/water 1,51

4,4'-ISOPROPYLIDENEDIPHENOL

Partition coefficient: n-octanol/water 3,4 BCF 73

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

4.4'-ISOPROPYLIDENEDIPHENOL

Partition coefficient: soil/water 2,95

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.

Waste transportation may be subject to ADR restrictions.

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

ADR / RID, IMDG, IATA: 1210

14.2. UN proper shipping name

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Packaging

Packaging

instructions: 355

instructions: 366

ADR / RID: **PRINTING INK** IMDG: PRINTING INK IATA: **PRINTING INK**

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: NO IATA:

14.6. Special precautions for user

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

Special provision: 163, 367

IMDG: EMS: F-E, S-D Limited Quantities: 5

IATA: Cargo: Maximum quantity: 220

> Pass.: Maximum quantity: 60 L

> > Special provision: A3, A72,

A192

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: P5c

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

Product

Point 3 - 40

Contained substance

Point 75

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

Repr. 1B Reproductive toxicity, category 1B

Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

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Eye Dam. 1 Serious eye damage, category 1

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 Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

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

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.

H360F May damage fertility.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H315 Causes skin irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful 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 as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation

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WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (IÌ 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
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- 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
- **FCHA** 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.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 09 / 11 / 12 / 14 / 15 / 16.