Inko	ups Corp.		Revision nr. 5
			Dated 16/07/2025
POV	VERBOND		Printed on 16/07/2025
			Page n. 1/22
			Replaced revision:4 (Dated: 15/09/2022)
			L
	Safety F	oata Sheet	
Accor		ACH - Regulation (EU) 2020/878	
	-	,	
SECTION 1. Identification of the sub	stance/mixture	and of the company/und	lertaking
1.1. Product identifier			
Product name	POWERBOND		
UFI:	DK64-S08W-800R-	SXCG	
1.2. Relevant identified uses of the substance or r		ised against	
Intended use Ink-Jet applications	UV INKS		
1.3. Details of the supplier of the safety data shee			
Name	Inkcups Corp. 310 Andover St.		
Full address	Danvers, MA 01923	}	
District and Country	U.S.		
	Tel. 978-646-8980		
e-mail address of the competent person			
responsible for the Safety Data Sheet	compliance@inkcu	ips.com	
Supplier:			
1.4. Emergency telephone number			
For urgent inquiries refer to	18004249300		
SECTION 2 Uppende identification			
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to supplements). The product thus requires a safety datas			
Any additional information concerning the risks for heal			
Hazard classification and indication:			
Eye irritation, category 2	H319	Causes serious eye irrita	ation.
Skin irritation, category 2 Specific target organ toxicity - single exposure, category	H315 bry 3 H335	Causes skin irritation. May cause respiratory ir	ritation
Skin sensitization, category 1	H317	May cause an allergic sl	kin reaction.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.	
Hazardous to the aquatic environment, chronic toxicit	y, H411	Toxic to aquatic life with	long lasting effects.
category 2			
2.2. Label elements			
		• • • • • • • • •	
Hazard labelling pursuant to EC Regulation 1272/2008	(CLP) and subsequer	amenuments and supplements.	

Inkcups Corp.	Revision nr. 5
	Dated 16/07/2025
POWERBOND	Printed on 16/07/2025
TOWERBOND	Page n. 2/22
	Replaced revision:4 (Dated: 15/09/2022)

Hazard pictograms:



Signal words:	Warning
Hazard statements:	
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
1555	
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Precautionary	
statements: <b>P280</b>	Wear protective gloves / eye protection / face protection.
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust, gas or vapours.
P312	Call a POISON CENTRE or a doctor if you feel unwell.
P264	Wash the hands thoroughly after handling.
Contains:	exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato 1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate
	EBECRYL LED 02
	Mercapto derivative
	Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(1-oxo-2-propen-1-yl) oxy] propoxy] propyl 2-Phenoxyethanol acrylate
	acrylate, 2- (2-ethoxy ethoxy) ethyl
	phenyl bis (2,4,6-trimethylbenzoyl) phosphine oxide
	3,5,5-trimethylcyclohexyl acrylate
	2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester

The product is classified both in acute and long-term aquatic hazard categories: it is possible to use only hazard statement H410 on the label.

2.3. Other hazards

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

Inkcups Corp.	Revision nr. 5
	Dated 16/07/2025
POWERBOND	Printed on 16/07/2025
	Page n. 3/22
	Replaced revision:4 (Dated: 15/09/2022)

The product does not contain substances with endocrine disrupting properties in concentration  $\ge 0.1\%$ .

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

3.1. Substances

Information not relevant

## 3.2. Mixtures

Contains:

Contains:		
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
exo-1,7,7-trimetilbiciclo(2.2.1)ept-		
2-il acrilato INDEX 607-133-00-9	28,5 ≤ x < 30	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1B H317,
EC 227-561-6		Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
CAS 5888-33-5		
REACH Reg. 01-2119957862-25-		
0001		
3,5,5-trimethylcyclohexyl acrylate		
INDEX 607-133-00-9	15 ≤ x < 16,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 289-200-9		
CAS 86178-38-3		
REACH Reg. 01-2120747316-53-		
0000 acrylate, 2- (2-ethoxy ethoxy) ethyl		
INDEX -	13,5 ≤ x < 15	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Irrit. 2 H319, Skin Irrit. 2 H315,
EC 230-811-7		Skin Sens. 1A H317 LD50 Oral: 1860 mg/kg, ATE Dermal: 1100 mg/kg
CAS 7328-17-8		
EBECRYL LED 02		
INDEX	8≤x< 9	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC -		
CAS 28961-43-5		
2,4,6-		
trimethylbenzoylphenylphosphinic acid ethyl ester		
INDEX -	$3,5 \le x \le 4$	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 282-810-6		
CAS 84434-11-7		
REACH Reg. 01-2119987994-10- 0000		
phenyl bis (2,4,6-trimethylbenzoyl)		
phosphine oxide INDEX 015-189-00-5	2,5≤x< 3	Skin Sens. 1A H317, Aquatic Chronic 4 H413
EC 423-340-5	_,	
CAS 162881-26-7		
REACH Reg. 01-2119489401-38-		
0000 Mercapto derivative		
INDEX	2≤x< 2,5	Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic
	2 = A + 2,0	Chronic 1 H410 M=1
EC -		ATE Oral: 500 mg/kg
CAS 7575-23-7		

	Inkcup	os Corp.	Revision nr. 5
			Dated 16/07/2025 Printed on 16/07/2025
	POWE	RBOND	
			Page n. 4/22 Replaced revision:4 (Dated: 15/09/2022)
			,
1-methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4-yl) decanedioate INDEX -	1,5≤x< 2	Repr. 2 H361, Skin Sens. 1 H317, Aquatic Chronic 1 H410	) M=1
EC 915-687-0			
CAS 1065336-91-5			
REACH Reg. 01-2119491304-40- XXXX 2-Phenoxyethanol acrylate			
INDEX -	1,5 ≤ x < 2	Repr. 2 H361d, Skin Sens. 1A H317, Aquatic Chronic 2 H	411
EC 256-360-6			
CAS 48145-04-6			
REACH Reg. 01-2119980532-35- xxxx Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(1-oxo-2-propen-1-yl) oxy] propoxy] propyl INDEX -	1≤x< 1,5	Skin Sens. 1A H317	
EC 603-069-0	,-		
CAS 125455-51-8			
1,7,7-trimethyl tricyclo [2.2.1.02,6] heptane			
INDEX -	0,09 ≤ x < 0,11	Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chro	onic 1 H410 M=1
EC 208-083-7			
CAS 508-32-7			
Canphene	0.00 4 4 4 0.11		
INDEX -	0,09 ≤ x < 0,11	Flam. Sol. 2 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 Chronic 1 H410 M=1	U IVI=1, AQUATIC
EC 201-234-8			
CAS 79-92-5			
REACH Reg. 01-2119446293-40			
N-BUTYL ACRYLATE			
INDEX 607-062-00-3	$0,07 \le x < 0,09$	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Skin Irrit. 2 H315, ST Sens. 1 H317, Classification note according to Annex VI to	

EC 205-480-7 CAS 141-32-2

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.

Regulation: D

Sens. 1 H317, Classification note according to Annex VI to the CLP

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

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

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

 Inkcups Corp.
 Revision nr. 5

 Dated 16/07/2025
 Dated 16/07/2025

 POWERBOND
 Printed on 16/07/2025

 Page n. 5/22
 Replaced revision:4 (Dated: 15/09/2022)

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

#### 5.2. Special hazards arising from the substance or mixture

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

#### 5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

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

Block the leakage if there is no hazard.

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

#### 6.2. Environmental precautions

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

	Revision nr. 5
Inkcups Corp.	
	Dated 16/07/2025
POWERBOND	Printed on 16/07/2025
r on Endonte	Page n. 6/22
	Replaced revision:4 (Dated: 15/09/2022)
	•

#### 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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.28 от 2 Април
		2024г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 18. října 2023, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví
		podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung
		gesundheitsschädlicher Arbeitsstoffe
DNK	Danmark	BEK nr 291 af 19/03/2024 (Historisk) Bekendtgørelse om grænseværdier for stoffer og materialer (kemiske
		agenser) i arbejdsmiljøet
ESP	España	Límites de exposición profesional para agentes químicos en España 2024
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők
		hatásának kitett munkavállalók egészségének és biztonságának védelméről
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Minister van Sociale Zaken en Werkgelegenheid van 13 mei2024, nr. 2024-0000092805,
		tot wijziging van deArbeidsomstandighedenregeling in verband met de implementatie vanRichtlijn 2022/431
PRT	Portugal	Decreto-Lei n.º 102/2024, de 4 de dezembro. Sumário: Transpõe para a ordem jurídica interna a Diretiva
	5	(UE) 2022/431, relativa à proteção dos trabalhadores contra riscos ligados à exposição a agentes
		cancerígenos ou mutagénicos e procede à guarta alteração
POL	Polska	ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 24 czerwca 2024 r.
-		zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i nateżeń czynników
		szkodliwych dla zdrowia w środowisku pracy
ROU	România	HOTĂRÂRE nr. 179 din 28 februarie 2024 pentru modificarea și completarea Hotărârii Guvernului nr.
		1.093/2006 privind stabilirea cerintelor minime de securitate și sănătate pentru protecția lucrătorilor
		împotriva riscurilor legate de expunerea la agenți ca
SWE	Sverige	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i
ONE	evenge	arbetsmiljön

			Inkcups (	Corp.				Revision nr. 5 Dated 16/07/2025	
			POWERB					Printed on 16/07/2025	
			FOWERD					Page n. 7/22	
								Replaced revision:4 (I	)ated: 15/09/2022)
TUR	Türkiye		Kimvasal Madde	lerle Calismalard	a Sağlık ve Güve	nlik Önlemleri	i Hakkında Yöne	etmelik 12.08.2013 /	28733 <sup>.</sup>
GBR	United Kingdom		20.10.2023 / 323						
EU	OEL EU		Directive (EU) 20 Directive (EU) 20 2004/37/EC; Dire	022/431; Directive	e (EU) 2019/1831 re (EU) 2017/164	Directive (EL	09/161/EU; Dire	rective (EU) 2019/98 ctive 2006/15/EC; Di	3; rective
	ACGIH		ACGIH 2025						
	metilbiciclo(2.2.1)		ato						
Normal value ir					0,00092	1	mg/l		
Normal value ir	n marine water				0.000092		mg/l		
	or fresh water sedime	ent			0,145		mg/kg/d		
	or marine water sedim				0,0145		mg/kg/d		
	or water, intermittent r				0,00704		mg/l		
	f STP microorganism				2		mg/l		
	or the terrestrial comp				0,0285		mg/kg/d		
	ived no-effect leve		MEL			Effects on			
		consumers				workers Acute local	Acute	Chronic local	Chronic
Pouto of oxnos			Acuto systemic	Chronic local	Chronic			Chilonic local	Chilonic
	sure A	Acute local	Acute systemic	Chronic local	Chronic systemic	/ louio loodi	systemic		systemic
Oral Skin 3,5,5-trimeth	nyicyclohexyl acry	Acute local	Acute systemic	Chronic local VND VND				VND	systemic 1,39 mg/kg/d
Oral Skin <b>3,5,5-trimeth</b> Predicted no-et	nylcyclohexyl acry	Acute local	Acute systemic	VND	systemic 0,83 mg/kg/d			VND	*
Oral Skin <b>3,5,5-trimeth</b> Predicted no-el Normal value ir	nylcyclohexyl acry ffect concentration - P	Acute local	Acute systemic	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d		systemic	VND	*
Oral Skin <b>3,5,5-trimeth</b> Predicted no-et Normal value ir Normal value ir	nylcyclohexyl acry ffect concentration - P	Acute local <b>∕late</b> ∙NEC	Acute systemic	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,00059		systemic	VND	*
Oral Skin <b>3,5,5-trimeth</b> Predicted no-et Normal value ir Normal value ir Normal value fo	<b>Nylcyclohexyl acry</b> ffect concentration - P in fresh water in marine water for fresh water sedime for marine water sedime	Acute local /late PNEC ont nent	Acute systemic	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,00059 0,029 0,003		systemic mg/l mg/l	VND	*
Skin <b>3,5,5-trimeth</b> Predicted no-ei Normal value ir Normal value ir Normal value fo Normal value fo	<b>Tylcyclohexyl acry</b> Ifect concentration - P n fresh water n marine water or fresh water sedime or marine water sedime or marine water sedim	Acute local ylate PNEC ent nent release	Acute systemic	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,029 0,003 0,0059		systemic mg/l mg/kg mg/kg mg/kg	VND	*
Oral Skin <b>3,5,5-trimeth</b> Predicted no-el Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo	<b>Sylcyclohexyl acry</b> Iffect concentration - P in fresh water in marine water or fresh water sedime or marine water sedime or marine water sedime or water, intermittent r	Acute local /late PNEC ent nent release is	Acute systemic	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,029 0,003 0,0059 100		systemic mg/l mg/kg mg/kg mg/l mg/l	VND	*
Oral Skin <b>3,5,5-trimeth</b> Predicted no-el Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo	<b>Tylcyclohexyl acry</b> Ifect concentration - P n fresh water n marine water or fresh water sedime or marine water sedime or marine water sedim	Acute local /late PNEC ent nent release is	Acute systemic	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,029 0,003 0,0059		systemic mg/l mg/kg mg/kg mg/kg	VND	*
Oral Skin 3,5,5-trimeth Predicted no-el Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo	<b>Sylcyclohexyl acry</b> Iffect concentration - P in fresh water in marine water or fresh water sedime or marine water sedime or marine water sedime or water, intermittent r	Acute local  /late PNEC ent nent release us bartment phosphinic a		VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,029 0,003 0,0059 100		systemic mg/l mg/kg mg/kg mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-el Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo	yicyclohexyl acry ffect concentration - P n fresh water n marine water or fresh water sedime or marine water sedim or water, intermittent r of STP microorganism or the terrestrial comp nyibenzoyiphenyip ffect concentration - P	Acute local  /late PNEC ent nent release us bartment phosphinic a		VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005		systemic mg/l mg/kg mg/kg mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value o Normal value o Normal value o Normal value fo 2,4,6-trimeth Predicted no-et Normal value ir	ayicyclohexyl acry ffect concentration - P in fresh water in marine water or fresh water sedime or marine water sedime or water, intermittent r if STP microorganism or the terrestrial comp ayibenzoyiphenyip ffect concentration - P in fresh water in marine water	Acute local /late PNEC ent nent release us partment phosphinic a		VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,0059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005		systemic mg/l mg/l mg/kg mg/l mg/l mg/kg mg/l mg/l mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value o Normal value o Normal value o Normal value o Normal value ir Normal value ir Normal value ir Normal value ir	Aylcyclohexyl acry ffect concentration - P in fresh water or fresh water sedime or marine water sedime or marine water sedime or water, intermittent r of STP microorganism or the terrestrial comp hylbenzoylphenylp ffect concentration - P in fresh water in marine water or fresh water sedime	Acute local /late /late /NEC ent release soartment phosphinic a PNEC ent		VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005		systemic mg/l mg/l mg/kg mg/kg mg/l mg/kg mg/l mg/l mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-el Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo Normal value ir Normal value ir Normal value ir Normal value fo	aylcyclohexyl acry ffect concentration - P in fresh water in marine water for fresh water sedime for marine water sedime for water, intermittent r or water, intermittent r f STP microorganism or the terrestrial comp <b>bylbenzoylphenylp</b> ffect concentration - P in fresh water in marine water or fresh water sedime for marine water sedime	Acute local  /late		VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005 0,005 0,005		systemic mg/l mg/l mg/kg mg/kg mg/l mg/l mg/kg mg/l mg/l mg/l mg/l mg/l mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo Normal value ir Normal value ir Normal value ir Normal value ir Normal value fo Normal value fo	<b>Nyicyclohexyl acry</b> Iffect concentration - P  In fresh water  In marine water  or fresh water sedime  or marine water sedime  or water, intermittent r  of STP microorganism  or the terrestrial comp <b>Nyibenzoylphenyip</b> Iffect concentration - P  In fresh water  In marine water  or fresh water  or fresh water sedime  or marine water sedime	Acute local /late PNEC ent nent phosphinic a PNEC ent nent release		VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005 100 0,005		systemic mg/l mg/l mg/kg mg/kg mg/l mg/kg mg/l mg/l mg/l mg/l	VND	*
Oral Skin Skin Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo Normal value ir Normal value ir Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo	Aylcyclohexyl acry ffect concentration - P in fresh water or fresh water sedime or marine water sedime or marine water sedime or water, intermittent r of STP microorganism or the terrestrial comp <b>cylbenzoylphenylp</b> ffect concentration - P in fresh water or fresh water or fresh water sedime or marine water sedime or marine water sedime or marine water sedime or water, intermittent r of STP microorganism	Acute local  /late /late /NEC  ent release is phosphinic a PNEC  ent release is	acid ethyl ester	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005 0,005 0,005 0,001 0 0,001 0 0,024 0,024 0,024 0,035 NPI		systemic mg/l mg/l mg/kg mg/kg mg/l mg/l mg/kg mg/l mg/l mg/l mg/l mg/l mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value o Normal value fo Normal value ir Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo	aylcyclohexyl acry ffect concentration - P in fresh water or fresh water or marine water sedime or marine water sedime or water, intermittent r of STP microorganism or the terrestrial comp aylbenzoylphenylp ffect concentration - P in fresh water or marine water or fresh water sedime or marine water sedi	Acute local  /late	acid ethyl ester	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005 0,000000		systemic mg/l mg/kg mg/kg mg/l mg/kg mg/l mg/kg/d mg/kg/d mg/kg/d	VND	*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value ir Normal value fo Normal value o Normal value o Normal value o Normal value ir Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value fo Normal value fo	Aylcyclohexyl acry ffect concentration - P in fresh water or fresh water sedime or marine water sedime or marine water sedime or water, intermittent r of STP microorganism or the terrestrial comp <b>cylbenzoylphenylp</b> ffect concentration - P in fresh water or fresh water or fresh water sedime or marine water sedime or marine water sedime or marine water sedime or water, intermittent r of STP microorganism	Acute local  /late	acid ethyl ester	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005 0,005 0,005 0,001 0 0,001 0 0,024 0,024 0,024 0,035 NPI		systemic mg/l mg/l mg/kg mg/kg mg/l mg/l mg/kg mg/l mg/l mg/l mg/l mg/l mg/l mg/l	VND	*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value o Normal value o Normal value ir Normal value ir Normal value ir Normal value if Normal value fo Normal value fo Normal value fo Normal value fo	Average of the sector of the s	Acute local  /late	acid ethyl ester	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,0059 100 0,005 100 0,005 100 0,005 0,005 0,005 0,001 0 0,001 0 0,001 0 0,024 0,024 0,035 NPI NPI 0,047	Effects on	systemic mg/l mg/kg mg/kg mg/l mg/kg mg/l mg/kg/d mg/kg/d mg/kg/d		*
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value fo Normal value fo Normal value fo Normal value o Normal value o Normal value ir Normal value ir Normal value ir Normal value if Normal value fo Normal value fo Normal value fo Normal value fo		Acute local	acid ethyl ester	VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,0029 0,003 0,005 100 0,005 100 0,005 0,000000		systemic sys	VND	1,39 mg/kg/d
Oral Skin 3,5,5-trimeth Predicted no-et Normal value ir Normal value ir Normal value ir Normal value fo Normal value fo Normal value o Normal value o Normal value ir Normal value ir Normal value ir Normal value ir Normal value fo Normal value fo		Acute local /late /late /late /late /late /late /nent /nent release /s /nent /nent release /nent release /s /nent /d	acid ethyl ester	VND VND	systemic 0,83 mg/kg/d 0,83 mg/kg/d 0,83 mg/kg/d 0,00059 0,00059 0,029 0,003 0,0059 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,005 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 100 0,000 0,000 100 0,000 100 0,000000	Effects on workers	systemic mg/l mg/kg mg/kg mg/kg mg/l mg/kg mg/l mg/kg/d mg/kg/d mg/kg/d		1,39 mg/kg/d

			-				Revision nr. 5 Dated 16/07/2025 Printed on 16/07/2025	i
		POWERB					Page n. 8/22 Replaced revision:4 ([	Dated: 15/09/2022)
phenyl bis (2,4,6-trimethy	/Ibenzoyl) phosp	hine oxide						
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,001	mg	/I		
Normal value in marine water				0,001	mg	/I		
Normal value for fresh water se				0,712	mg	/kg		
Normal value for marine water				0,712	mg	-		
Normal value for water, intermit				0,001	mg			
Normal value of STP microorga				1	mg			
Normal value for the terrestrial	-			20	mg	/kg		
Health - Derived no-effect	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,5 mg/kg/d				
Inhalation				5,2 mg/m3		21 mg/m3	-	21 mg/m3
Skin				1,5 mg/kg/d		3,3 mg/kg/o	1	3,3 mg/kg/d
<b>1-methyl 1,2,2,6,6-pentam</b> Predicted no-effect concentration Normal value in fresh water		-yl decanedioate	e bis(1,2,2,6,6-r	0,0022	peridin-4-yl) c		te	
Normal value in marine water				0,00022	mg	/I		
	ediment			0,00022 1,05	mg			
Normal value in marine water Normal value for fresh water se Normal value for marine water				,	-	/kg		
Normal value for fresh water se Normal value for marine water	sediment			1,05	mg	/kg /kg		
Normal value for fresh water se	sediment ttent release			1,05 0,11	mg	/kg /kg /l		
Normal value for fresh water se Normal value for marine water Normal value for water, intermit Normal value of STP microorga	sediment ttent release anisms			1,05 0,11 0,009	mg mg mg	/kg /kg /l /l		
Normal value for fresh water se Normal value for marine water Normal value for water, intermit	sediment ttent release anisms compartment	DMEL		1,05 0,11 0,009 1	mg mg mg mg	/kg /kg /l /l		
Normal value for fresh water set Normal value for marine water a Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial <b>Health - Derived no-effect</b>	sediment ttent release anisms compartment t level - DNEL / C Effects on	DMEL Acute systemic	Chronic local	1,05 0,11 0,009 1 0,21 Chronic	mg mg mg mg Effects on	/kg /kg /l /kg Acute	Chronic local	Chronic systemic
Normal value for fresh water set Normal value for marine water a Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial <b>Health - Derived no-effect</b>	sediment ttent release anisms compartment t level - DNEL / D Effects on consumers		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg	mg mg mg mg Effects on workers	/kg /kg /l /l /kg	Chronic local	Chronic systemic
Normal value for fresh water se Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value of stP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral	sediment ttent release anisms compartment t level - DNEL / D Effects on consumers		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic	mg mg mg mg Effects on workers	/kg /kg /l /kg Acute	Chronic local	
Normal value for fresh water se Normal value for marine water Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure	sediment ttent release anisms compartment t level - DNEL / D Effects on consumers		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d	mg mg mg mg Effects on workers	/kg /kg /l /kg Acute	Chronic local	systemic
Normal value for fresh water se Normal value for marine water in Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg	mg mg mg mg Effects on workers	/kg /kg /l /kg Acute	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg	mg mg mg mg Effects on workers	/kg /l /l /kg Acute systemic	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentration Normal value in fresh water	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d	Effects on workers Acute local	/kg /l /l /kg Acute systemic	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentration Normal value in fresh water Normal value in marine water	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local te on - PNEC		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d	Effects on workers Acute local	/kg /l /l /kg Acute systemic	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value of the terrestrial <b>Health - Derived no-effect</b> Route of exposure Oral Inhalation Skin <b>2-Phenoxyethanol acrylat</b> Predicted no-effect concentration Normal value in fresh water Normal value in marine water	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local te on - PNEC		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d	Effects on workers Acute local	/kg /kg /l /l /kg Acute systemic	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentratio Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local te on - PNEC ediment sediment		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d	Effects on workers Acute local	/kg /kg /l /l /kg Acute systemic /l //l //l //kg/d	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for marine water	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local te on - PNEC ediment sediment ttent release		Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d	Effects on workers Acute local	/kg /kg /l /l /kg Acute systemic /l /l /kg/d /kg/d /l	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentratio Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water i Normal value for marine water i Normal value for water, intermit Normal value of STP microorga	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local te on - PNEC ediment sediment ttent release anisms		Chronic local	1,05 0,11 0,009 1 0,21 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,002 0,0002 0,0002 0,004 0,004 0,004 0,0121	Effects on workers Acute local mg mg mg mg mg mg mg mg mg	/kg /kg /l /l /kg Acute systemic /l /l /kg/d /kg/d /l	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value of the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentration	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local te on - PNEC adiment sediment ttent release anisms compartment t level - DNEL / I Effects on	Acute systemic	Chronic local	1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,002 0,002 0,002 0,002 0,004 0,004 0,004 0,002 1,77	Effects on mg mg mg mg mg mg Acute local	/kg /kg /l /l /kg Acute systemic /l /l /kg/d /l /kg/d /l	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg
Normal value for fresh water se Normal value for marine water se Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 2-Phenoxyethanol acrylat Predicted no-effect concentratio Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water set Normal value for marine water set	sediment ttent release anisms compartment t level - DNEL / I Effects on consumers Acute local  te on - PNEC ediment sediment sediment ttent release anisms compartment t level - DNEL / I	Acute systemic		1,05 0,11 0,009 1 0,21 Chronic systemic 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,58 mg/m3 1,25 mg/kg bw/d 0,002 0,002 0,002 0,002 0,004 0,004 0,004 0,002 1,77	Effects on workers Acute local	/kg /kg /l /l /kg Acute systemic /l /l /kg/d /l /kg/d /l	Chronic local	systemic 2,35 mg/m3 2,5 mg/kg

		Inkcups	Corp.				Revision nr. 5 Dated 16/07/2025	
		POWERE	BOND				Printed on 16/07/2025 Page n. 9/22 Replaced revision:4 (I	
Skin							VND	1,5 mg/kg
reaction mass of isomers of Predicted no-effect concentration	of: C7-9-alkyl 3-	(3,5-di-tert-buty	I-4-hydroxypl	nenyl)propiona	te			
Normal value in fresh water				0,018	n	ng/l		
Normal value in marine water				0,0018		ng/l		
Normal value for fresh water sedi	ment			2		ng/kg/d		
Normal value for marine water se				0,2		ng/kg/d		
Normal value for water, intermitte				0,018		ng/l		
Normal value of STP microorgan				100		ng/l		
Normal value for the food chain (		ng)		41,33		ng/kg		
Normal value for the terrestrial co				10		ng/kg/d		
Health - Derived no-effect I	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral				systemic 0,93 mg/kg		systemic		systemic
Inhalation				bw/d 1,62 mg/m3				6,6 mg/m3
Skin				0,83 mg/kg				1,67 mg/kg
Cont				bw/d				bw/d
Canphene Predicted no-effect concentration	- PNEC							
Normal value in fresh water				0,00072	n	ng/l		
Normal value in marine water				0,000072		ng/l		
Normal value for fresh water sed	ment			0,0262		ng/kg/d		
Normal value for marine water se	diment			0,00262		ng/kg/d		
Normal value for water, intermitte				0,00072		ng/l		
Normal value of STP microorgan	isms			10	n	ng/l		
Normal value for the food chain (	secondary poisoni	ng)		2,08	n	ng/kg food		
Normal value for the terrestrial co				0,0211	n	ng/kg/d		
Health - Derived no-effect I	Effects on	MEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral	VND	0,625 mg/kg/d	VND	systemic 0,1 mg/kg/d		systemic		systemic
Inhalation	VND	54,3 mg/m3	VND	54,3 mg/m3	VND	110,19	VND	110,19
Skin	VND	0,625 mg/kg/d	VND	0,1 mg/kg/d	VND	mg/m3 1,25 mg/kg		mg/m3 0,21 mg/kg/d
		-,og/ng/d		-,		.,_0		-,
N-BUTYL ACRYLATE Threshold Limit Value		h		STEL/15min		Remarl Observ		
	y TWA/8	11				Observ		
Threshold Limit Value	ry TWA/8 mg/m3		ppm	mg/m3	ppm			
Threshold Limit Value Type Countr			ppm 2	mg/m3 53	10			
Threshold Limit Value       Type     Countribution       TLV     BGR	mg/m3			-				
Threshold Limit Value       Type     Countr       TLV     BGR	mg/m3		2	53	10			
Threshold Limit Value       Type     Countribution       TLV     BGR       TLV     CZE	mg/m3 11 10		2	53 20	10 3,8	SKIN		
Threshold Limit Value       Type     Countr       TLV     BGR       TLV     CZE       AGW     DEU	mg/m3 11 10 11		2 1,9 2	53 20 22	10 3,8 4	SKIN		

		Inl	(cups (	Corp.			Revision nr. 5 Dated 16/07/202	25	
		PC	OWERB	BOND			Printed on 16/07 Page n. 10/22 Replaced revisio	7/2025 on:4 (Dated: 15/09/2022)	
VLEP	FRA	11		2	53	10			_
AK	HUN	11		2	53	10			_
VLEP	ITA	11		2	53	10			
TGG	NLD	11			53				
VLE	PRT	11		2	53	10			-
NDS/NDSCh	POL	11			30				-
TLV	ROU	11		2	53	10			_
NGV/KGV	SWE	11		2	53	10			_
ESD	TUR	11		2	53	10			
WEL	GBR	5		1	26	5			_
OEL	EU	11		2	53	10			_
ACGIH		10		2					_
4-methoxypheno Threshold Limit		TWA/8h			STEL/15min		Remarks /		-
		mg/m3		ppm	mg/m3	ppm	Observations		-
VLEP	ITA	5							
ACGIH		5							_
Predicted no-effect of	concentration - PN	IEC							
Normal value in fresl	h water				0,0136	mg/l			-
Normal value in mari	ine water				0,00136	mg/l			_
Normal value for fres	sh water sediment				0,125	mg/kg/d			_
Normal value for ma	rine water sedime	nt			0,0125	mg/kg/d			_
Normal value of STF	<sup>o</sup> microorganisms				10	mg/l			_
Normal value for the	terrestrial compar	rtment			0,017	mg/kg/d			_
Health - Derived	Eff	fects on				Effects on			
Route of exposure		nsumers ute local Acu	te systemic	Chronic loc	al Chronic systemic		te Chronic lo emic	ocal Chronic systemic	
Inhalation					•	VND 10 n	ng/m3 VND	3 mg/m3	_
egend:									
	INHAL = Inhalat	ble Fraction ; R	ESP = Res	pirable Frac	ction ; THORA	= Thoracic Fraction.			
C) = CEILING ; I					osure expected	: NPI = no hazard i	dentified : LOW	= low bazard ·	MED
C) = CEILING ; I ND = hazard iden ledium hazard ;			ble ; NE	A – no exp		,	, -		
ND = hazard iden	HIGH = high ha		ole ; NE	A – 110 exp		,		- Iow hazard ,	
ND = hazard iden edium hazard ; 8.2. Exposure co	HIGH = high ha	azard. quipment must al equipment, ask y	ways take vour chemie	priority over	r personal protec ce supplier for ad	tive equipment, make vice.			

	Inkcups Corp		Revision nr. 5
			Dated 16/07/2025
	POWERBOND	)	Printed on 16/07/2025
			Page n. 11/22
			Replaced revision:4 (Dated: 15/09/2022)
The work gloves' resistance to chemica type of use. SKIN PROTECTION	en choosing work glove materia I agents should be checked be wed overalls and safety footwe	al (see standard EN 374): compatibility, degrada fore use, as it can be unpredictable. The glove ear (see Regulation 2016/425 and standard El	s' wear time depends on the duration and
Respiratory protection devices must be considered. Use a mask with a type A fi f the substance considered is odourles	lter whose class (1, 2 or 3) must so or its olfactory threshold is h atus (in compliance with standa	es adopted are not suitable for restricting the v st be chosen according to the limit of use conce nigher than the corresponding TLV-TWA and i ard EN 137) or external air-intake breathing ap d EN 529.	ntration. (see standard EN 14387). n the case of an emergency, wear open-
ENVIRONMENTAL EXPOSURE CONT The emissions generated by manufact environmental standards.		se generated by ventilation equipment, shoul	d be checked to ensure compliance with
Product residues must not be indiscrimi	nately disposed of with waste v	vater or by dumping in waterways.	
SECTION 9. Physical and	chemical properties		
9.1. Information on basic physical a	ind chemical properties		
Properties	Value	Information	
Appearance	liquid		
Colour	transparent		
Odour	characteristic of solve	ent	
Melting point / freezing point	not available		
Initial boiling point	not available		
Flammability	not available		

not available

not available > 60 °C

not available

not available

not available

not available

not available

not available not available

not available

not applicable

insoluble

9.2. Other information

Particle characteristics

Lower explosive limit

Upper explosive limit

Kinematic viscosity

Vapour pressure

Auto-ignition temperature

Decomposition temperature

Partition coefficient: n-octanol/water

Density and/or relative density Relative vapour density

Flash point

pН

Solubility

inkcups corp.	Revision nr. 5 Dated 16/07/2025
POWERBOND	Printed on 16/07/2025
	Page n. 12/22
	Replaced revision:4 (Dated: 15/09/2022)

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.

#### N-BUTYL ACRYLATE

When hot it can polymerise with explosion even when stabilised with 20 ppm of momomethyl ether hydroquinone. Store at below < 35°C/95°F and out of direct light. Always leave a layer of air on top of the liquid.

#### 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.

#### N-BUTYL ACRYLATE

May polymerise on contact with: amines, bases, halogens, strong oxidising agents, acids, hydrogen compounds. May polymerise if exposed to: heat. Forms explosive mixtures with: hot air.

### 10.4. Conditions to avoid

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

#### N-BUTYL ACRYLATE

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

#### 10.5. Incompatible materials

#### N-BUTYL ACRYLATE

Incompatible with: amines, halogens, oxidising substances, strong acids, alkalis.

#### 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**

Inkcup	os Corp.	Revision nr. 5 Dated 16/07/2025
POWE	RBOND	Printed on 16/07/2025
		Page n. 13/22
		Replaced revision:4 (Dated: 15/09/2022)
In the absence of experimental data for the product itself, criteria specified in the applicable regulation for classification It is therefore necessary to take into account the concent effects of exposure to the product.	on.	·
11.1. Information on hazard classes as defined in Regu	lation (EC) No 1272/2008	
Metabolism, toxicokinetics, mechanism of action and other	information	
nformation not available		
nformation on likely routes of exposure		
Information not available		
Delayed and immediate effects as well as chronic effects fr	rom short and long-term exposure	
Information not available		
Interactive effects		
nformation not available		
ACUTE TOXICITY ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant component) >2000 mg/kg >2000 mg/kg	
exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato LD50 (Dermal): LD50 (Oral):	3000 mg/Kg/24h Coniglio / Rabbit > 4350 mg/kg Ratto / Rat	
3,5,5-trimethylcyclohexyl acrylate LD50 (Oral):	> 5000 mg/kg Ratto / Rat	
acrylate, 2- (2-ethoxy ethoxy) ethyl LD50 (Dermal): ATE (Dermal):	> 1000 mg/kg/24h Coniglio / Rabbit 1100 mg/kg estimate from table 3.1.2 of Anne (figure used for calculation of the acute toxicity	
LD50 (Oral):	1860 mg/kg Ratto / Rat	
gamma-methacryloxy propyl trimethoxy silane LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Ratto / Rat > 2000 mg/kg Ratto / Rat	
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Ratto - Rat > 2000 mg/kg Ratto / Rat	
ohenyl bis (2,4,6-trimethylbenzoyl) phosphine oxide LD50 (Dermal): LD50 (Oral):	> 2000 mg/kg Ratto / Rat > 2000 mg/kg Ratto / Rat	
Mercapto derivative ATE (Oral):	500 mg/kg estimate from table 3.1.2 of Annex (figure used for calculation of the acute toxicity	
I-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate LD50 (Dermal): LD50 (Oral):	bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioat > 3000 mg/kg Ratto / Rat > 2000 mg/kg Ratto / Rat	le

2-Phenoxyethanol acrylate LD50 (Dermal):       > 2000 mg/kg Ratto / Rat         LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [( LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Canphene LD50 (Dermal):       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Coniglio / Rabbit         N-BUTYL ACRYLATE LD50 (Dermal):       > 5000 mg/kg Ratto / Rat         N-BUTYL ACRYLATE LD50 (Oral):       750 mg/kg Rabbit         SKIN CORROSION / IRRITATION       00,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION       Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION       Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION       Sensitising for the skin	Printed on 16/07/2025         Page n. 14/22         Replaced revision:4 (Dated: 15/09/2022)         1-oxo-2-propen-1-yl) oxy] propoxy] propyl
LD50 (Dermal):       > 2000 mg/kg Ratto / Rat         LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Canphene       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Coniglio / Rabbit         N-BUTYL ACRYLATE       > 5000 mg/kg Ratto / Rat         LD50 (Dermal):       > 5000 mg/kg Ratto / Rat         N-BUTYL ACRYLATE       750 mg/kg Rabbit         LD50 (Oral):       900 mg/kg Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION         Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION         Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION	Replaced revision:4 (Dated: 15/09/2022)
LD50 (Dermal):       > 2000 mg/kg Ratto / Rat         LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Canphene       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Coniglio / Rabbit         N-BUTYL ACRYLATE       > 5000 mg/kg Ratto / Rat         LD50 (Dermal):       > 5000 mg/kg Ratto / Rat         N-BUTYL ACRYLATE       750 mg/kg Rabbit         LD50 (Oral):       900 mg/kg Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION         Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION         Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION	1-oxo-2-propen-1-yl) oxy] propoxy] propyl
LD50 (Dermal):       > 2000 mg/kg Ratto / Rat         LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(         LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Canphene       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Coniglio / Rabbit         N-BUTYL ACRYLATE       > 2500 mg/kg Ratto / Rat         LD50 (Oral):       > 2500 mg/kg Rabbit         N-BUTYL ACRYLATE       750 mg/kg Rabbit         LD50 (Oral):       > 900 mg/kg Ratto / Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION       Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION       Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION       Respiratory or Skin SENSITISATION	1-oxo-2-propen-1-yl) oxy] propoxy] propyl
LD50 (Oral):       5000 mg/kg Ratto / Rat         Siloxanes and silicones, 3- [3- (acetoxy) -2-hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(         LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Canphene       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 2500 mg/kg Ratto / Rat         N-BUTYL ACRYLATE       > 5000 mg/kg Ratto / Rat         LD50 (Oral):       > 750 mg/kg Rabbit         LD50 (Oral):       900 mg/kg Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION         Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION         Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION	1-oxo-2-propen-1-yl) oxy] propoxy] propyl
LD50 (Oral):       > 2000 mg/kg Ratto / Rat         Canphene       > 2500 mg/kg Coniglio / Rabbit         LD50 (Dermal):       > 5000 mg/kg Ratto / Rat         N-BUTYL ACRYLATE       750 mg/kg Rabbit         LD50 (Oral):       750 mg/kg Rabbit         N-BUTYL ACRYLATE       750 mg/kg Rabbit         LD50 (Oral):       900 mg/kg Rat         LD50 (Oral):       900 mg/kg Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION       Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION       Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION       RESPIRATORY OR SKIN SENSITISATION	1-oxo-2-propen-1-yl) oxy] propoxy] propyl
LD50 (Dermal):       > 2500 mg/kg Coniglio / Rabbit         LD50 (Oral):       > 5000 mg/kg Ratto / Rat         N-BUTYL ACRYLATE	
LD50 (Oral):       > 5000 mg/kg Ratto / Rat         N-BUTYL ACRYLATE       750 mg/kg Rabbit         LD50 (Dermal):       750 mg/kg Rabbit         LD50 (Oral):       900 mg/kg Rat         LD50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION       2         Causes skin irritation       2         SERIOUS EYE DAMAGE / IRRITATION         Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION	
LD50 (Dermal):       750 mg/kg Rabbit         LD50 (Oral):       900 mg/kg Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION       2         Causes skin irritation       2         SERIOUS EYE DAMAGE / IRRITATION       2         Causes serious eye irritation       2         RESPIRATORY OR SKIN SENSITISATION	
LD50 (Oral):       900 mg/kg Rat         LC50 (Inhalation vapours):       10,3 mg/l/4h Rat         SKIN CORROSION / IRRITATION         Causes skin irritation         SERIOUS EYE DAMAGE / IRRITATION         Causes serious eye irritation         RESPIRATORY OR SKIN SENSITISATION	
SKIN CORROSION / IRRITATION Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation RESPIRATORY OR SKIN SENSITISATION	
Causes skin irritation <u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye irritation <u>RESPIRATORY OR SKIN SENSITISATION</u>	
SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation RESPIRATORY OR SKIN SENSITISATION	
RESPIRATORY OR SKIN SENSITISATION	
Sensitising for the skin	
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 respiratory irritation	
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	
1.2. Information on other hazards	
Based on the available data, the product does not contain substances listed in the main Europ numan health effects under evaluation.	ean lists of potential or suspected endocrine disruptors w

Inko	ups Corp.	Revision nr. 5 Dated 16/07/2025
POV	VERBOND	Printed on 16/07/2025
		Page n. 15/22
		Replaced revision:4 (Dated: 15/09/2022)
SECTION 12. Ecological information		
his product is dangerous for the environment and high his product is dangerous for the environment and is to 2.1. Toxicity	ly toxic for aquatic organisms. xic for aquatic organisms. In the long term, it has	negative effects on the aquatic environment.
exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato		
LC50 - for Fish	0,7 mg/l/96h Danio rerio	
EC50 - for Algae / Aquatic Plants	1,98 mg/l/72h Pseudokirchneriella subc	apitata
Chronic NOEC for Crustacea	0,09 mg/l/21d Daphnia magna (21d)	
Chronic NOEC for Algae / Aquatic Plants	0,405 mg/l/72h Pseudokirchneriella sub	capitata (72d)
3,5,5-trimethylcyclohexyl acrylate		
LC50 - for Fish	1,9 mg/l/96h Danio rerio	
EC50 - for Crustacea	14,43 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	> 0,59 mg/l/72h Pseudokirchneriella sub	ocapitata
EC10 for Algae / Aquatic Plants	19,9 mg/l/72h Pseudokirchneriella subc	apitata
acrylate, 2- (2-ethoxy ethoxy) ethyl		
EC50 - for Crustacea	10,56 mg/l/48h Daphnia magna (Dir 67/	548/CEE, All. V)
EC50 - for Algae / Aquatic Plants	36,63 mg/l/72h Desmodesmus subspica	atus (DIN 38412, Parte 9)
Chronic NOEC for Fish	10 mg/l/96h Leucidus idus (DIN 38412,	Parte 15)
gamma-methacryloxy propyl trimethoxy		
silane Chronic NOEC for Fish	> 100 mg/l Brachydanio rerio (96h)	
Chronic NOEC for Crustacea	> 100 mg/l Daphnia magna (48h)	
Chronic NOEC for Algae / Aquatic Plants	> 100 mg/l Desmodesmus subspicatus	(72h)
2.4.6-trimethylbenzoylphenylphosphinic acid		
ethyl ester		
LC50 - for Fish	1,89 mg/l/96h Brachydanio rerio	
EC50 - for Crustacea	2,26 mg/l/48h Daphnia magna	
phenyl bis (2,4,6-trimethylbenzoyl) bhosphine oxide		
LC50 - for Fish	> 9 mg/l/96h Brachydanio rerio (OECD 2	203)
EC50 - for Crustacea	> 1175 mg/l/48h Daphnia magna (OECI	,
EC50 - for Algae / Aquatic Plants	> 26 mg/l/72h Desmodesmus subspicat	
Chronic NOEC for Crustacea	31 mg/l Daphnia magna (21 d; OECD 2	11)
1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4-yl) decanedioate LC50 - for Fish	0,9 mg/l/96h Danio rerio	
EC50 - for Crustacea		
EC50 - for Algae / Aquatic Plants	20 mg/l/24h 24 h / Daphnia magna 1,68 mg/l/72h Desmodesmus subspicat	119
Chronic NOEC for Crustacea	> 6,3 mg/l Daphnia magna	us
Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants	<ul> <li>&gt; 6,3 mg/i Dapnnia magna</li> <li>0,22 mg/l Desmodesmus subspicatus</li> </ul>	
GINGING NOLO IGI AIgae / Aqualic Flatits	0,22 mgn Desmodesmus subspicatus	
2-Phenoxyethanol acrylate		

Inkc	ups Corp.	Revision nr. 5 Dated 16/07/2025
POV	VERBOND	Printed on 16/07/2025
		Page n. 16/22
		Replaced revision:4 (Dated: 15/09/2022)
LC50 - for Fish	10 mg/l/96h Fish	
EC50 - for Crustacea	1,21 mg/l/48h Daphnia magna OECD TG 202	
EC50 - for Algae / Aquatic Plants	4,4 mg/l/72h Desmodesmus subspicatus ISO 8692	
EC10 for Algae / Aquatic Plants	0,71 mg/l/72h Desmodesmus subspicatus	
Siloxanes and silicones, 3- [3- (acetoxy) -2- hydroxypropioxy] propyl Me, di-Me, 3- [2 hydroxy-3 - [(1-oxo-2-propen-1-yl) oxy]		
propoxy] propyl EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna (OECD 202)	
Canphene		
LC50 - for Fish	0,72 mg/l/96h Brachydanio rerio	
EC50 - for Crustacea	22 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Desmodesmus subspicatus	
2.2. Persistence and degradability	J	
exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato		
Solubility in water	19,8 mg/l	
NOT rapidly degradable		
3,5,5-trimethylcyclohexyl acrylate		
Solubility in water	18,3 mg/l	
NOT rapidly degradable		
gamma-methacryloxy propyl trimethoxy		
silane		
Solubility in water	Reagisce lentamente mg/l	
2,4,6-trimethylbenzoylphenylphosphinic acid ethyl ester		
Solubility in water	0,005 g/100 g acqua @20°C	
NOT rapidly degradable		
phenyl bis (2,4,6-trimethylbenzoyl) phosphine oxide NOT rapidly degradable		
1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4-yl) decanedioate Solubility in water	< 100 mg/l	
NOT rapidly degradable		
2-Phenoxyethanol acrylate		
Solubility in water	0,525 g/l	
NOT rapidly degradable		
Canphene		
Solubility in water	6,275 mg/l	
NOT rapidly degradable		

Inkc	ups Corp.	Revision nr. 5 Dated 16/07/2025
POW	/ERBOND	Printed on 16/07/2025
		Page n. 17/22
		Replaced revision:4 (Dated: 15/09/2022)
N-BUTYL ACRYLATE		
Solubility in water	1700 mg/l	
Rapidly degradable		
2.3. Bioaccumulative potential		
exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato		
Partition coefficient: n-octanol/water	4,52 (OECD TG 1179	
BCF	37 (56 d, Metodo: Linee Guida 305 pe zebra)	er il Test dell'OECD, Danio rerio (pesce
3,5,5-trimethylcyclohexyl acrylate		
Partition coefficient: n-octanol/water	4,6	
acrylate, 2- (2-ethoxy ethoxy) ethyl		
Partition coefficient: n-octanol/water	1,2 (OECD TG 117)	
2,4,6-trimethylbenzoylphenylphosphinic acid		
ethyl ester Partition coefficient: n-octanol/water	2,91 valore stimato	
2-Phenoxyethanol acrylate		
Partition coefficient: n-octanol/water	2,58 @25°C	
Canphene		
Partition coefficient: n-octanol/water	< 4,51	
BCF	> 2 l/kg	
N-BUTYL ACRYLATE		
Partition coefficient: n-octanol/water	2,38	
BCF	37	
2.4. Mobility in soil		
exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato		
Partition coefficient: soil/water	3,18 (Metodo. calcolato)	
2,4,6-trimethylbenzoylphenylphosphinic acid		
ethyl ester Partition coefficient: soil/water	3,37	
2-Phenoxyethanol acrylate		
Partition coefficient: soil/water	2,2	
N-BUTYL ACRYLATE		
Partition coefficient: soil/water	1,6	

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

Inkcups Corp.	Revision nr. 5
	Dated 16/07/2025
POWERBOND	Printed on 16/07/2025
	Page n. 18/22
	Replaced revision:4 (Dated: 15/09/2022)

## 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.

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

ADR / RID, IMDG, IA	ΓA: UN 3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

#### 14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato;
	3,5,5-trimethylcyclohexyl acrylate)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato;
	3,5,5-trimethylcyclohexyl acrylate)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato;
	3,5,5-trimethylcyclohexyl acrylate)

#### 14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9	
IMDG:	Class: 9	Label: 9	
IATA:	Class: 9	Label: 9	

## 14.4. Packing group

ADR / RID, IMDG, IATA:

III

		Inkcups Co	orp.		Revision nr. 5 Dated 16/07/2025
		POWERBO			Printed on 16/07/2025
		FUWERDU			Page n. 19/22
					Replaced revision:4 (Dated: 15/09/2022)
14.5. Environment	al hazards				
ADR / RID:	Environmentally Hazardous				
IMDG:	Marine Pollutant		× ×		
IATA:	Environmentally Hazardous				
14.6. Special preca	autions for user				
ADR / RID:		HIN - Kemler: 90		Limited Quantities: 5 It	Tunnel restriction code: (-)
		Special provision: 27 650	4, 335, 375, 601,		
IMDG:		EMS: F-A, S-F		Limited Quantities: 5 It	
IATA:		Cargo:		Maximum quantity: 450 L	Packaging instructions: 964
		Passengers:		Maximum quantity: 450	Packaging instructions:
					964
		Special provision:		L A97, A158, A197, A215	964
14.7. Maritime tran	nsport in bulk accordir			_ A97, A158,	964
<b>14.7. Maritime tran</b> Information not rele				_ A97, A158,	964
Information not rele		ng to IMO instruments		_ A97, A158,	964
nformation not rele SECTION 15	vant 5. Regulatory inf	ng to IMO instruments	n specific for the substance	A97, A158, A197, A215	964
Information not rele SECTION 15 15.1. Safety, hea	vant 5. Regulatory inf	og to IMO instruments Ormation regulations/legislatio		A97, A158, A197, A215	964
Information not rele SECTION 15 15.1. Safety, hea Seveso Category -	vant 5. Regulatory info Ith and environmental Directive 2012/18/EU: E	ng to IMO instruments Ormation regulations/legislatio		A97, A158, A197, A215	964
Information not rele SECTION 15 15.1. Safety, hea Seveso Category -	vant <b>5. Regulatory info</b> <b>Ith and environmental</b> Directive 2012/18/EU: E to the product or conta	ng to IMO instruments Ormation regulations/legislatio	n specific for the substance	A97, A158, A197, A215	964
Information not rele SECTION 15 15.1. Safety, hea Seveso Category - Restrictions relating Product	vant <b>5. Regulatory inf</b> <b>Ith and environmental</b> Directive 2012/18/EU: E to the product or conta 3	ormation regulations/legislatio	n specific for the substance	A97, A158, A197, A215	964
Information not rele SECTION 15 15.1. Safety, hea Seveso Category - Restrictions relating Product Point	vant <b>5. Regulatory inf</b> <b>Ith and environmental</b> Directive 2012/18/EU: E to the product or conta 3	ormation regulations/legislatio	n specific for the substance	A97, A158, A197, A215	964
Information not rele SECTION 15 15.1. Safety, hea Seveso Category - Restrictions relating Product Point Contained substance	Vant <b>5. Regulatory info</b> <b>Ith and environmental</b> Directive 2012/18/EU: E to the product or conta 3 3	ormation regulations/legislatio	n specific for the substance ant to Annex XVII to EC Regula	A97, A158, A197, A215 or mixture ation 1907/2006	964
Information not rele SECTION 15 15.1. Safety, hea Seveso Category - Restrictions relating Product Point Contained substance Point	Normal <b>5. Regulatory info</b> <b>1th and environmental</b> Directive 2012/18/EU: E to the product or conta 3 22 22 75	ormation regulations/legislatio 1 - 40 5 N 5 S	n specific for the substance ant to Annex XVII to EC Regula I-BUTYL ACRYLATE ,5,5-trimethylcyclohexyl acrylat REACH Reg.: 01-2120747316-5	A97, A158, A197, A215 or mixture ation 1907/2006 te 53-	964

Inkcups Corp.		Revision nr. 5 Dated 16/07/2025 Printed on 16/07/2025		
			POWERBOND	
			Replaced revision:4 (Dated: 15/09/2022)	
		2119541813-40		
Point	75	exo-1,7,7-trimetilbiciclo(2.2.1)ept-2-il acrilato REACH Reg.: 01- 2119957862-25-0001		
Regulation (EU) 2019/11	48 - on the marketing and use of	f explosives precursors		
not applicable				
Substances in Candidate	e 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 th	e 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	am. Liq. 3 Flammable liquid, category 3	
Flam. Sol. 2	Flammable solid, category 2	
Repr. 2	Reproductive toxicity, category 2	
Acute Tox. 4	Acute toxicity, category 4	
Eye Irrit. 2	Eye irritation, category 2	
Skin Irrit. 2	Skin irritation, category 2	
STOT SE 3	Specific target organ toxicity - single exposure, category 3	
Skin Sens. 1	Skin sensitization, category 1	
Skin Sens. 1A	Skin sensitization, category 1A	
Skin Sens. 1B	Skin sensitization, category 1B	
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1	

	Inkcups Corp.	Revision nr. 5	
		Dated 16/07/2025	
	POWERBOND	Printed on 16/07/2025	
		Page n. 21/22	
		Replaced revision:4 (Dated: 15/09/2022)	
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 4	Hazardous to the aquatic environment, chronic toxicity, category 4		
H226	Flammable liquid and vapour.		
H228	Flammable solid.		
H361	Suspected of damaging fertility or the unborn child.		
H361d	Suspected of damaging the unborn child.		
H302	Harmful if swallowed.		

LEGEND:

H312

H319

H315

H335

H317

H400

H410

H411

H413

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

Harmful in contact with skin.

Causes serious eye irritation.

May cause respiratory irritation.

May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

May cause long lasting harmful effects to aquatic life.

Toxic to aquatic life with long lasting effects.

Causes skin irritation.

Very toxic to aquatic life.

ATE: Acute Toxicity Estimate

CAS: Chemical Abstract Service Number

CE50: Effective concentration (required to induce a 50% effect)

CE: Identifier in ESIS (European archive of existing substances)

CLP: Regulation (EC) 1272/2008

DNEL: Derived No Effect Level

EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labeling of chemicals

IATA DGR: International Air Transport Association Dangerous Goods Regulation

IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

INDEX: Identifier in Annex VI of CLP

LC50: Lethal Concentration 50%

LD50: Lethal dose 50%

**OEL: Occupational Exposure Level** 

PBT: Persistent, bioaccumulative and toxic

PEC: Predicted environmental Concentration

PEL: Predicted exposure level

PMT: Persistent, mobile and toxic

PNEC: Predicted no effect concentration

REACH: Regulation (EC) 1907/2006

RID: Regulation concerning the international transport of dangerous goods by train

TLV: Threshold Limit Value

TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

TWA: Time-weighted average exposure limit

TWA STEL: Short-term exposure limit

VOC: Volatile organic Compounds

vPvB: Very persistent and very bioaccumulative

vPvM: Very persistent and very mobile

WGK: Water hazard classes (German).

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Inkcups Corp.	Revision nr. 5 Dated 16/07/2025
POWERBOND	Printed on 16/07/2025
TOWERBOND	Page n. 22/22
	Replaced revision:4 (Dated: 15/09/2022)
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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 / 04 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.