INK	C U P	S Dated 1/1/2022
BT SE	ERIES INK	Page n. 1/23
	Safety Dat	ta Sheet
SECTION 1. Identification of the sub	stance/mixture a	and of the company/undertaking
1.1. Product identifier Product name	BT Series Ink	
1.2. Relevant identified uses of the substance or rIntended usePad printing ink.	nixture and uses advis	sed against
 1.3. Details of the supplier of the safety data sheer Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet Product distribution by: 	t INKCUPS NOW COR 310 Andover St. Danvers, MA. 01923 U.S.A. Tel. 9786468980 Fax 9786468981 compliance@inkcup Inkcups	
1.4. Emergency telephone number For urgent inquiries refer to	18004249300	
SECTION 2. Hazards identification 2.1. Classification of the substance or mixture		
The product is classified as hazardous pursuant to the supplements). The product thus requires a safety data: Any additional information concerning the risks for hea	sheet that complies with	EC) Regulation 1272/2008 (CLP) (and subsequent amendments and on the provisions of (EU) Regulation 2015/830. ent are given in sections 11 and 12 of this sheet.
Hazard classification and indication: Flammable liquid, category 3 Eye irritation, category 2 Specific target organ toxicity - single exposure, categ Hazardous to the aquatic environment, chronic toxicit category 3		Flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
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:

Warning

Hazard statements:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains:, 2-(2H-benzotriazol-2-il)-p-cresolo
	May produce an allergic reaction.

Precautionary statements:

P210 P280 P370+P378 P261 P312 P403+P233	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: use chemical powder, CO2 or dry send to extinguish. Avoid breathing dust, gas or vapours. Call a POISON CENTRE or a doctor if you feel un well. Store in a well-ventilated place. Keep container tightly closed.
Contains:	4-HYDROXY-4-METHYLPENTAN-2-ONE AROMATIC HYDROCARBONS, C8-C10
	XYLENE (MIXTURE OF ISOMERS)

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
4-HYDROXY-4-METHYLPENTAN-		
2-ONE CAS 123-42-2	15 ≤ x < 16,5	Flam. Liq. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H335
EC 204-626-7		
INDEX 603-016-00-1		
Reg.no. 01-2119473975-21xxxx		

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2-METHOXY-1-METHYLETHYL ACETATE		
CAS 108-65-6	7≤x< 8	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9		
INDEX 607-195-00-7		
Reg.no. 01-2119475791-29-xxxx		
AROMATIC HYDROCARBONS, C8-C10		
CAS 64742-95-6	7≤x< 8	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: H P
EC 918-668-5		
INDEX 649-356-00-4		
Reg.no. 01-2119455851-35-xxxx		
2-(2H-benzotriazol-2-il)-p-cresolo		
CAS 2440-22-4	0,75 ≤ x < 0,85	Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
EC 219-470-5		
INDEX -		
Reg.no. 01-2119583811-34-0000		
quaternary ammonium eto		
sulphate CAS 68308-64-5	0,7 ≤ x < 0,8	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1
EC 269-662-8		
INDEX -		
Reg.no. auto classificazione		
XYLENE (MIXTURE OF ISOMERS)		
CAS 1330-20-7	0,6 ≤ x < 0,7	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Beauletion: C
EC 215-535-7		Regulation: C
INDEX 601-022-00-9		
Reg.no. 01-2119488216-32-xxxx		
Amines, coco alkyldimethyl, N- oxides		
CAS 61788-90-7	0 ≤ x < 0,1	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1
EC 263-016-9		H400 M=10
INDEX -		
The full wording of hazard (H) phrases	is given in section 1	6 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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

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INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

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 breath e 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.

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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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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 us e compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leak age 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 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	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА № 13 от 30 декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	TRGS 900 (Fassing 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes guímicos en España 2017
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
		trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no
		trabalho - Diaro da Republica I 26; 2012-02-06
ROU	România	Monitorul Oficial al României 44; 2012-01-19
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
TUR	Türkiye	2000/39/EC sayılı Direktifin ekidir
EU	TLV-ACGIH	ACGIH 2018
	RCP TLV	ACGIH TLVs and BEIs – Appendix H
1		

4-HYDROXY-4-METHY Threshold Limit Value					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	CZE	200		300	

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AGW	DEU	96	20	192	40	SKIN		
МАК	DEU	96	20	192	40	SKIN		
TLV	DNK	240	50					
VLA	ESP	241	50					
VLEP	FRA	240	50					
WEL	GBR	241	50	362	75			
OEL	NLD	120				SKIN		
NDS	POL	240						
TLV	ROU	150	32	250	53			
МАК	SWE	120	25	240	50			
TLV-ACGIH		238	50					
Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			2	m	g/I		
Normal value in marine wa	ter			0,2	mg	g/l		
Normal value for fresh wate	er sediment			9,06	m	g/kg		
Normal value for marine wa	ater sediment			0,91	m	g/kg		
Normal value for water, inte	ermittent release			1	m	g/I		
Normal value of STP micro	organisms			82	mg	g/I		
Normal value for the terres	trial compartment			0,63	m	g/kg		
Health - Derived no-ef		MEL						
	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				3,4 mg/kg				
Inhalation				11,8 mg/m3				66,4 mg/m3
Skin				3,4 mg/kg				9,4 mg/kg

2-METHOXY-1-METHYLETHYLACETATE

Threshold Limit V	/alue						
Туре	Country	Country TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	275		550		SKIN	
TLV	CZE	270		550		SKIN	
AGW	DEU	270	50	270	50		
МАК	DEU	270	50	270	50		
TLV	DNK	275	50	550	100	SKIN	
VLA	ESP	275	50	550	100	SKIN	
VLEP	FRA	275	50	550	100	SKIN	
WEL	GBR	274	50	548	100		
VLEP	ITA	275	50	550	100	SKIN	
OEL	NLD	550					
NDS	POL	260		520			
VLE	PRT	275	50	550	100	SKIN	
TLV	ROU	275	50	550	100	SKIN	
МАК	SWE	250	50	400	75	SKIN	

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							ige II. 1/23	
	7115	075	50		400	01/101		
ESD	TUR	275	50	550	100	SKIN		
OEL	EU	275	50	550	100	0//11		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concentrati	on - PNEC			0.005				
Normal value in fresh water				0,635	mç			
Normal value in marine water				0,0635	mg			
Normal value for fresh water se	ediment			3,29	mg	g/kg		
Normal value for marine water	sediment			0,329	mç	g/I		
Normal value for water, intermi				6,35	mç	g/I		
Normal value of STP microorga				100	mç	g/I		
Normal value for the terrestrial				0,29	mç	g/kg		
Health - Derived no-effec	t level - DNEL / D Effects on consumers	OMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,67 mg/kg		Systemic		Systemic
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
Skin			VND	54,8 mg/kg			VND	153,5 mg/kg
AROMATIC HYDROCARI	BONS, C8-C10							
Threshold Limit Value	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	100	20		FF,		1.2.3 trim	etilbenzene
DEL	EU	100	20					retilbenzene
TLV-ACGIH	20	100	20					retilbenzene
Health - Derived no-effec	t level - DNFL / F	MEL					·,2,0 (III	
	Effects on				Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 11 mg/kg		systemic		systemic 11 mg/kg
Inhalation			VND				VND	bw/d
Inhalation Skin				32 mg/m3				150 mg/m3
Skin			VND	11 mg/kg			VND	25 mg/kg
			01100111177	DEACTION				
DIMETHYL ADIPATE, DIN		RATE, DIMETHYI	<u>SUCCINATE,</u>	, REACTION N	IASS			
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati		RATE, DIMETHYI	<u>- SUCCINATE,</u>	, REACTION N 0,018		g/l		
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati Normal value in fresh water		RATE, DIMETHYI	<u>- SUCCINATE,</u>		MASS mg			
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati Normal value in fresh water Normal value in marine water	on - PNEC	RATE, DIMETHYI	<u>- SUCCINATE,</u>	0,018 0,002	mı mı	g/l		
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se	on - PNEC ediment	RATE, DIMETHYI	<u>- SUCCINATE,</u>	0,018 0,002 0,16		g/l g/kg/d		
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water	on - PNEC ediment sediment	RATE, DIMETHYI	<u>- SUCCINATE,</u>	0,018 0,002 0,16 0,016	۳ږ ۳ږ ۳ږ	g/l g/kg/d g/kg/d		
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi	on - PNEC ediment sediment ttent release	RATE, DIMETHYI	- SUCCINATE,	0,018 0,002 0,16 0,016 0,18	۳۰ ۳۰ ۳۰ ۳۰	g/l g/kg/d g/kg/d g/l		
DIMETHYL ADIPATE, DIM Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga	on - PNEC ediment sediment ttent release anisms	RATE, DIMETHYI	<u>- SUCCINATE,</u>	0,018 0,002 0,16 0,016 0,18 10	۳۹ ۳۹ ۳۹ ۳۹ ۳۹ ۳۹	g/l g/kg/d g/kg/d g/l		
DIMETHYL ADIPATE, DIM Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value of the terrestrial	ediment sediment ttent release anisms compartment		- SUCCINATE,	0,018 0,002 0,16 0,016 0,18	۳۹ ۳۹ ۳۹ ۳۹ ۳۹ ۳۹	g/l g/kg/d g/kg/d g/l		
DIMETHYL ADIPATE, DIN Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effec Route of exposure	ediment sediment ttent release anisms compartment		- SUCCINATE,	0,018 0,002 0,16 0,016 0,18 10	۳۹ ۳۹ ۳۹ ۳۹ ۳۹ ۳۹	g/l g/kg/d g/kg/d g/l	Chronic local	Chronic

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Inhalation			5 mg/m3	VND			8,3 mg/m3	VND
2-(2H-benzotriazol-2-il								
Predicted no-effect concent								
Normal value in fresh water				0,00026	m	g/l		
Normal value in marine wate	er			0,000026	m	g/I		
Normal value for fresh water	r sediment			0,136	m	g/kg		
Normal value for marine wat	ter sediment			0,0136	m	g/kg		
Normal value for water, inte	rmittent release			1	m	g/l		
Normal value of STP microc	organisms			1	m	g/I		
Normal value for the terrest	rial compartment			11	m	g/kg		
Health - Derived no-eff	ect level - DNEL/E Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,2 mg/kg		2,000.00		2, 2001110
Inhalation							VND	1 mg/m3
Skin			VND	1,2 mg/kg			VND	2,5 mg/kg
XYLENE (MIXTURE OF Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	221		442		SKIN		
TLV	CZE	200		400		SKIN		
AGW	DEU	440	100	880	200	SKIN		
МАК	DEU	440	100	880	200	SKIN		
TLV	DNK	109	25	218	50			
VLA	ESP	221	50	442	100	SKIN		
VLEP	FRA	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100			
VLEP	ITA	221	50	442	100	SKIN		
OEL	NLD	210		442		SKIN		
NDS	POL	100						
VLE	PRT	221	50	442	100	SKIN		
TLV	ROU	221	50	442	100	SKIN		
MAK	SWE	221	50	442	100	SKIN		
ESD	TUR	221	50	442	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		221	50	442	100			
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water				0,327	m	g/l		
Normal value in marine wat				0,327		g/l		
Normal value for fresh water				12,46		g/kg		
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ormal value for water, intermit	tent release			0,327	mg	g/I		
Normal value of STP microorga	nisms			6,58	m	g/l		
Normal value for the terrestrial	compartment			2,31	m	g/kg		
Health - Derived no-effect level - DNEL / DMEL Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,6 mg/kg/d		2		<u> </u>
Inhalation Skin	174 mg/m3	174 mg/m3	VND VND	14,8 mg/m3 108 mg/kg/d	289 mg/m3 174 mg/m3	289 mg/m3 VND	77 mg/m3 VND	77 mg/m3 180 mg/k
BUTANOL Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	300		600		SKIN		
AGW	DEU	310	100	310	100			
MAK	DEU	310	100	310	100			
TLV	DNK	150	50			SKIN		
VLA	ESP	61	20	154	50			
VLEP	FRA			150	50			
WEL	GBR			154	50	SKIN		
DEL	NLD			45				
NDS	POL	50		150				
TLV	ROU	100	33	200	66			
МАК	SWE	45	15	90	30	SKIN		
TLV-ACGIH		61	20					
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,082	mę			
Normal value in marine water				0,0082	m			
Normal value for fresh water se				0,178		g/kg		
Normal value for marine water				0,0178		g/kg		
Normal value for water, intermit				2,25	m	-		
Normal value of STP microorga				2476	m			
Normal value for the terrestrial of Health - Derived no-effect	•	MEL		0,015	Effects on	g/kg		
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3125 mg/kg				
Inhalation			55 mg/m3	VND			310 mg/m3	VND
Traduci da: Indonesiano Predicted no-effect concentratic	on - PNFC							
Normal value in fresh water				0,0032	mg	a/l		
				0,0002		g/1		

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Normal value for fresh water sec	liment			15,6	m	g/kg		
Normal value for water, intermitt	ent release			0,0032		g/l		
Normal value of STP microorgar	nisms			35	m	g/l		
Normal value for the terrestrial c				0,865		g/kg/d		
Health - Derived no-effect	•	MEL						
	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		1,3 mg/kg bw/d		ey eternie		oyotoimo		oyotoimo
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d
2,6-DIMETHYLHEPTAN-4- Threshold Limit Value	ONE							
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	DNK	150	25					
VLA	ESP	148	25					
VLEP	FRA	250	25					
WEL	GBR	148	25					
OEL	NLD	150						
NDS	POL	150		300				
TLV	ROU	150	26	250	43			
TLV-ACGIH		145	25					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,03	m	g/I		
Normal value in marine water				0,003	m	g/I		
Normal value for fresh water sed	liment			0,46	m	g/kg		
Normal value for marine water s	ediment			0,046	m	g/kg		
Normal value for water, intermitte	ent release			0,3	m	g/I		
Normal value of STP microorgan	nisms			2,55	m	g/I		
Health - Derived no-effect	level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation			145 mg/kg	systemic 171 mg/kg		systemic	290 mg/m3	systemic 479 mg/m3
Skin			VND	28,5 mg/kg			VND	80 mg/kg
2 ethylanthraquinone	Country	ΤΜ/Α/95		STEL /4Fasta				
Threshold Limit Value	Country	TWA/8h	ppm	STEL/15min mg/m3				
Type		mg/m3		ma/m3	ppm			

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

8.2. Exposure controls

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

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

Person al 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 Directive 89/686/EEC and standard EN ISO 20344). Wash body with so ap and water after removing protective clothing.

Consider the appropriateness of providing an tistatic 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 o dourless 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

Appearance Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation Rate Flammability of solids and gases Lower inflammability limit	liquid various characteristic Not available Not available > 130 ℃ Not available 50 ℃ Not available Not available Not available
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Upper inflammability limit	Notavailable
Lower explosive limit	Notavailable
Upper explosive limit	Notavailable
Vapour pressure	Notavailable
Vapour density	Notavailable
Relative density	Notavailable
Solubility	partialy soluble in water. Soluble in almost all organic solvents
Partition coefficient: n-octanol/wate	er Notavailable
Auto-ignition temperature	Notavailable
Decomposition temperature	Notavailable
Viscosity	Notavailable
Explosive properties	Notavailable
Oxidising properties	Notavailable
9.2. Other information	
5.2. Other information	
VOC (Directive 2010/75/EC) :	32,05 %
VOC (volatile carbon) :	21,37 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

4-HYDROXY-4-METHYLPENTAN-2-ONE Decomposes at temperatures above 90°C/194°F.

2-METHOXY-1-METHYLETHYLACETATE Stable in normal conditions of use and storage.

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

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.

4-HYDROXY-4-METHYLPENTAN-2-ONE Risk of explosion on contact with: air, sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

2-METHOXY-1-METHYLETHYL ACETATE

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

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

10.4. Conditions to avoid

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

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10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE In compatible with: oxidising substances,strongacids,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 toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYLACETATE

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

WORKERS: in halation; contact with the skin.

2-METHOXY-1-METHYLETHYLACETATE

WORKERS: in halation; contact with the skin.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: in halation; contact with the skin. POPULATION: in gestion of contaminated food or water; inhalation of ambient air.

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

2-METHOXY-1-METHYLETHYLACETATE

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).

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XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, comea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

In take of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

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

Amines, coco alkyldimethyl, N-oxides

LD50 (Oral) > 2000 mg/kg Ratto / Rat

Cellulose acetate butyrate

LD50 (Oral) > 3200 mg/kg Rat

LD50 (Dermal) > 1000 mg/kg Cavia

AROMATIC HYDROCARBONS, C8-C10 - UVCB - CONTENT OF BENZENE < 0.1% W / W

LD50 (Oral) 3492 mg/kg Ratto / Rat

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

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

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 11,58 mg/l/4h Rat

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2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral) 8500 mg/kg Ratto / Rat

LD50 (Dermal) > 5000 mg/kg Coniglio / Rabbit

LC50 (Inhalation) 4345 ppm/6h Ratto / Rat

4-HYDROXY-4-METHYLPENTAN-2-ONE

LD50 (Oral) 3002 mg/kg Rat

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

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

quaternary ammonium eto sulphate

LD50 (Oral) 940 mg/kg Topo / Mouse

2-(2H-benzotriazol-2-il)-p-cresolo

LD50 (Oral) > 10000 mg/kg (OECD-Linea guida 423)

LD50 (Dermal) > 2000 mg/kg ratto (OECD - linea guida 402) An alogismo: valutazione derivante da prodotti chimicamente simili.

LC50 (In halation) > 0,59 mg/l 4 h ratto (OCSE - linea guida 403) concentrazione a piu' alta testabilita'

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS

LD50 (Oral) > 5000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rat

LC50 (Inhalation) > 11 mg/l Rat (4h)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

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May produce an allergic reaction. Contains: 2-(2H-benzotriazol-2-il)-p-cresolo

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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

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

 quaternary ammonium eto sulphate

 M-Factor

 Quaternary ammonium compounds, coco alkylethyldimethyl, ethyl sulfates

 Acute aquatic toxicity = 1

 (according to the Globally Harmonized System (GHS) and Regulation (EC) No 1272/2008)

 amines, coco alkyldimethyl

 Acute aquatic toxicity = 1

 (according to the Globally Harmonized System (GHS) and Regulation (EC) No 1272/2008).

 Amines, coco alkyldimethyl, N-oxides

 LC50 - for Fish
 12,6 mg/l/96h Salmo gairdneri

 EC50 - for Crustacea
 2,9 mg/l/48h Daphnia magna

LC50 - for Fish

> 9,2 mg/l/96h Oncorhynchus mykiss

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EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

XYLENE (MIXTURE OF ISOMERS) LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea

4-HYDROXY-4-METHYLPENTAN-2-ONE

LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

2-(2H-ben zotriazol-2-il)-p-cresolo LC50 - for Fish EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

12.2. Persistence and degradability

2-(2H-ben zotriazol-2-il)-p-cresolo Not readily biodegradable. quatern ary ammonium eto sulphate Ultimate aerobic biodegradability Completely bio degradable 71% - 28 d Method: According to ISO 14593 Un published in temal reports.

AROMATIC HYDROCARBONS, C8-C10-UVCB Rapidly degradable > 3,2 mg/l/48h Daphnia magna> 2,9 mg/l/72h Pseudokirchneriella subcapitata

2,6 mg/l/96h Fish 8,5 mg/l/48h Daphnia magna 2,2 mg/l/72h Selenastrum capricomutum > 1,3 mg/l 56d / On corhynchus mykiss 0,96 mg/l 7d / Daphnia 0,44 mg/l 72h / Pseudokirchneriella subcapitata

134 mg/l/96h Pesce, Oncorhynchus mykiss OECD203 > 500 mg/l/48h Daphnia magna > 1000 mg/l/72h Selenastrum capricornutum OECD201 47,5 mg/l Oryzias latipes 14 gg OECD204 100 mg/l Dapnia magna 21 gg OECD202

> 100 mg/l/96h Oryzias latipes

- > 1000 mg/l/48h Daphnia magna
- < 1000 mg/l/72h Pseudokirchneriella subcapitata

> 0,17 mg/l/96h Oncorhynchus mykiss (OECD - linea guida 203, semistatico)
 > 1000 mg/l/48h CE50 (24 h), Daphnia mag na (OECD - linea guida 202, parte 1, statico)

> 100 mg/l/72h Desmodesmus subspicatus

0,013 mg/l Daphnia magna 33 mg/l/72h (biomassa) Desmodesmus subspicatus (OECD-linea guida 201)

0,018 mg/l/96h 0,018 - 0,024 / (Pimephales promelas) (72h) 0,112 mg/l/48h 0,112 - 0,15/Daphnia Magna > 85 mg/l/72h Pseudokirchneriella subcapitata

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XYLENE (MIXTURE OF ISOMERS)	
Solubility in water	60 mg/l @25℃
Rapidlydegradable	
2-METHOXY-1-METHYLETHYLACETATE	
Solubility in water	> 10000 mg/l
Rapidlydegradable	
4-HYDROXY-4-METHYLPENTAN-2-ONE	
Solubility in water	1000 - 10000 mg/l
Rapidlydegradable	
quaternary ammonium eto sulphate	
Entirely degradable	
2-(2H-benzotriazol-2-il)-p-cresolo	
Solubility in water	0,173 mg/l @20°C
NOT rapidly degradable	
DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE,	
REACTION MASS	
Solubility in water	30000 mg/l 26000 - 40500 mg/l
Rapidly degradable 12.3. Bioaccumulative potential	
2-(2H-benzotriazol-2-il)-p-cresolo	
	ct can accumulate in the body. Bio accumulative potential: Bioconcentration factor: 548 - 895 (70 d), act has not been tested. The statement has been derived from products of a similar structure and), Cyprinus carpio (OECD - guideline 305 C).
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: n-octanol/water	3,2 25 0 ///-r
BCF	25,9 l/kg
2-METHOXY-1-METHYLETHYLACETATE	
Partition coefficient: n-octanol/water	1,2
BCF	100
4-HYDROXY-4-METHYLPENTAN-2-ONE	
Partition coefficient: n-octanol/water	-0,09
2-(2H-ben zotriazol-2-il)-p-cresolo	
Partition coefficient: n-octanol/water	4,2 mg/l @25°C
BCF	548 548 - 895 / Cyprinus carpio - 70d

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DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, **REACTION MASS** Partition coefficient: n-octanol/water 1,4 12.4. Mobility in soil XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water 2,73 2-METHOXY-1-METHYLETHYLACETATE Partition coefficient: soil/water 1,7 2-(2H-benzotriazol-2-il)-p-cresolo Partition coefficient: soil/water 3,71 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 greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

Disposal must be performed through an authorised waste man agement 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

ADR / RID, IMDG, 1210 IATA:

14.2. UN proper shipping name

ADR / RID:	PRINTING INK or PRINTING INK RELATED MATERIAL
IMDG:	PRINTING INK or PRINTING INK RELATED MATERIAL
IATA:	PRINTING INK or PRINTING INK RELATED MATERIAL

14.3. Transport hazard class(es)

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ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



14.4. Packing group

ADR / RID, IMDG, III IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special Provision: -		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5	
IATA:	Cargo:	L Maximum quantity: 220	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	000

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P5c

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

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

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

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ to xicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ to xicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
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 ${\tt 3}$
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

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H332	Harmful if in haled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergicskin 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
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- · PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)

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13. Regulation (EU) 2017/776 (X Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and tho roughness 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.

Changes to previous review: The following sections were modified: 02/03/08/09/11/12/16.