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### **Safety Data Sheet**

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

1.1. Product identifier

Product name SB SERIES INK

UFI: 1N10-J0JN-700F-763K

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Pad printing ink.

1.3. Details of the supplier of the safety data sheet

Name INKCUPS CORPORATION
Full address 310 ANDOVER ST.
District and Country DANVERS, MA 01923
USA

USA

Tel. 978-646-8980

e-mail address of the competent person

responsible for the Safety Data Sheet compliance@inkcups.com

Product distribution by: INKCUPS CORP.

1.4. Emergency telephone number

For urgent inquiries refer to 1.800.424.9300

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

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour. Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways. Serious eye damage, category 1 H318 Causes serious eye damage. Skin irritation, category 2 H315 Causes skin irritation. Specific target organ toxicity - single exposure, category 3 H335 May cause respiratory irritation. Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness. Hazardous to the aquatic environment, chronic toxicity, H412 Harmful to aquatic life with long lasting effects. category 3

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#### 2.2. Label elements

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

#### Hazard pictograms:









Signal words:

Danger

#### Hazard statements:

**H226** Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

**H315** Causes skin irritation.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

**H412** Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

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

P331 Do NOT induce vomiting.

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

rinsing.

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

P310 Immediately call a POISON CENTER or a doctor.

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

Contains: AROMATIC HYDROCARBONS, C8-C10 - UVCB

CYCLOHEXANONE

4-HYDROXY-4-METHYLPENTAN-2-ONE 2-METHOXY-1-METHYLETHYL ACETATE

#### 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

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Information not relevant

#### 3.2. Mixtures

Contains:

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

4-HYDROXY-4-METHYLPENTAN-

2-ONE

CAS 123-42-2 30 ≤ x < 32,5 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

**CYCLOHEXANONE** 

CAS 108-94-1 18 ≤ x < 19,5 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4

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

EC 203-631-1

INDEX 606-010-00-7

Reg. no. 01-2119453616-35-xxxx

**AROMATIC** 

**HYDROCARBONS, C8C10** 

CAS 64742-95-6 18 ≤ x < 19,5 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-METHOXY-1-METHYLETHYL

ACETATE

CAS 108-65-6 13,5  $\leq$  x < 15 Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9

INDEX 607-195-00-7

Reg. no. 01-2119475791-29-xxxx

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

#### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

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

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

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

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

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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 breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

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

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

Block the leakage if there is no hazard.

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

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

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

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

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

Store only in the original container. Store in a 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 No 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 (Fassung 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 químicos 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

#### 4-HYDROXY-4-METHYLPENTAN-2-ONE

**Threshold Limit Value** 

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Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	200		300				
AGW	DEU	96	20	192	40	SKIN		
MAK	DEU	96	20	192	40	SKIN		
TLV	DNK	240	50					
VLA	ESP	241	50					
VLEP	FRA	240	50					
WEL	GBR	241	50	362	75			
OEL	NLD	120				SKIN		
NDS	POL	240						
TLV	ROU	150	32	250	53			
MAK	SWE	120	25	240	50			
TLV-ACGIH		238	50					
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				2	mç	g/l		
Normal value in marine wate	r			0,2	mç	g/l		
Normal value for fresh water	sediment			9,06	mç	g/kg		
Normal value for marine wate	er sediment			0,91	mç	g/kg		
Normal value for water, inter	mittent release			1	mç	g/l		
Normal value of STP microor	ganisms			82	mg/l			
Normal value for the terrestri	al compartment			0,63	m	g/kg	-	
Health - Derived no-effe	ect level - DNEL / 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				3,4 mg/kg		зузістііс		Systemic
Inhalation				11,8 mg/m3				66,4 mg/m3
Skin				3,4 mg/kg				9,4 mg/kg
CYCLOHEXANONE								
Threshold Limit Value								

#### mg/m3 mg/m3 ppm ppm TLV BGR 40,8 81,6 SKIN TLV CZE 40 80 SKIN AGW DEU 80 20 80 20 SKIN TLV DNK 40 10 VLA ESP 41 10 82 20 SKIN VLEP FRA 10 81,6 20 40,8 WEL 20 GBR 41 10 82 SKIN

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					Pa	ge n. 7/21	
ITA	40,8	10	81,6	20	SKIN		
NLD			50		SKIN		
POL	40		80				
		10		20	SKIN		
	<u> </u>						
EU					SKIN		
	80	20	201	50			
tion - PNEC							
			0,1	mg	/I		
Normal value in marine water				mg.	/I		
Normal value for fresh water sediment				mg.	/kg		
r sediment			0,0512	mg	/kg		
Normal value for water, intermittent release				mg	/I		
ganisms			10	mg	/I		
l compartment			0,0435	mg.	/kg		
ct level - DNEL / [	OMEL						
Effects on				Effects on			
Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
			1,5 mg/kg				
		VND	10 mg/m3			VND	40 mg/m3
		VND	1 mg/kg bw/d			VND	4 mg/kg bw/d
DONE CO CAO	IVCP						
BONS, Co-C10 - 1	JVCB						
Country	TWA/8h		STEL/15min				
	mg/m3	ppm	mg/m3	ppm			
ITA	mg/m3 100	ppm 20	mg/m3	ppm		1,2,3 trim	netilbenzene
ITA EU			mg/m3	ppm			netilbenzene netilbenzene
	100	20	mg/m3	ppm		1,2,3 trim	
	100	20	mg/m3	ppm		1,2,3 trim	netilbenzene
EU	100	20	mg/m3	ppm  Effects on workers		1,2,3 trim	netilbenzene
EU  ct level - DNEL / I  Effects on	100	20	Chronic	Effects on	Acute	1,2,3 trim	netilbenzene netilbenzene Chronic
EU  ct level - DNEL / [  Effects on consumers	100 100 DMEL	20 20 25		Effects on workers	Acute systemic	1,2,3 trim	Chronic systemic 11 mg/kg
EU  ct level - DNEL / [  Effects on consumers	100 100 DMEL	20 20 25 Chronic local	Chronic systemic	Effects on workers		1,2,3 trim	Chronic systemic 11 mg/kg bw/d
EU  ct level - DNEL / [  Effects on consumers	100 100 DMEL	20 20 25  Chronic local VND VND	Chronic systemic 11 mg/kg 32 mg/m3	Effects on workers		1,2,3 trim 1,2,3 trim Chronic local	Chronic systemic 11 mg/kg bw/d 150 mg/m3
EU  ct level - DNEL / [  Effects on consumers	100 100 DMEL	20 20 25 Chronic local	Chronic systemic 11 mg/kg	Effects on workers		1,2,3 trim 1,2,3 trim Chronic local	Chronic systemic 11 mg/kg bw/d
EU  ct level - DNEL / [  Effects on consumers	100 100  DMEL  Acute systemic	20 20 25  Chronic local VND VND	Chronic systemic 11 mg/kg 32 mg/m3	Effects on workers		1,2,3 trim 1,2,3 trim Chronic local	Chronic systemic 11 mg/kg bw/d 150 mg/m3
	NLD POL PRT ROU SWE TUR EU  tion - PNEC  sediment r sediment nittent release ganisms Il compartment ct level - DNEL / E Effects on consumers Acute local	NLD POL 40 PRT 40,8 ROU 40,8 SWE 41 TUR 40,8 EU 40,8 80 tion - PNEC  sediment r sediment aittent release ganisms Il compartment ct level - DNEL / DMEL Effects on consumers Acute local Acute systemic	NLD  POL 40  PRT 40,8 10  ROU 40,8 10  TUR 40,8 10  EU 40,8 10  80 20  tion - PNEC  sediment r sediment of sediment ct level - DNEL / DMEL Effects on consumers Acute local Acute systemic Chronic local  VND  VND	NLD 50 POL 40 80 PRT 40,8 10 81,6 ROU 40,8 10 81,6 SWE 41 10 81 TUR 40,8 10 81,6 EU 40,8 10 81,6 80 20 201 tion - PNEC 0,1 0,01 sediment 0,512 r sediment 0,0512 nittent release 0,329 ganisms 10 I compartment 0,0435 Et level - DNEL / DMEL Effects on consumers Acute local Acute systemic Chronic local Chronic systemic 1,5 mg/kg bw/d VND 10 mg/m3 VND 1 mg/kg bw/d BONS, C8-C10 - UVCB	NLD	ITA	NLD

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		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	275		550		SKIN		
TLV	CZE	270		550		SKIN		
AGW	DEU	270	50	270	50			
MAK	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		
MAK	SWE	250	50	400	75	SKIN		
ESD	TUR	275	50	550	100	SKIN		
OEL	EU	275	50	550	100			
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concent	tration - PNEC							
Normal value in fresh water	r			0,635	mg/	/1		
Normal value in marine wat	ter			0,0635	mg/	/1		
Normal value for fresh water	er sediment			3,29	mg,	/kg		
Normal value for marine wa	ater sediment			0,329	mg,	/I		
Normal value for water, inte	ermittent release			6,35	mg,	/I		
Normal value of STP micro	organisms			100	mg/			
Normal value for the terrest				0,29	mg/			
Health - Derived no-eff		DMFI		-,	9	9		
Ticulai Berived no ci	Effects on	J			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral			VND	systemic 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	330 mg/m3		VND	153,5 mg/kg
SKIII			VIND	54,6 mg/kg			VIND	155,5 mg/kg
Traduci dar Indonesia								
Traduci da: Indonesia Predicted no-effect concent								
Normal value in fresh water	r			0,0032	mg/	/1		
Normal value in marine wat	ter			0,0032	mg/			
Normal value for fresh water sediment				15,6	mg			
Normal value for water, inte				0,0032	mg/			
Normal value of STP micro				35				
Normal value of 5 FP INICFO	urganisms			აა	mg,	'1		

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Normal value for the terrestri	0,865	mg/kg/d						
Health - Derived no-effe	ect level - DNEL / I 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		1,3 mg/kg bw/d		Зузіснію		Systemic		Зузіснію
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d
N-BUTYL ACETATE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	710		950				
TLV	CZE	950		1200				
AGW	DEU	300	62	600	124			
VLA	ESP	724	150	965	200			
VLEP	FRA	710	150	940	200			
WEL	GBR	724	150	966	200			
VLEP	ITA	713	150	950	200			
OEL	NLD	150						
NDS	POL	200		950				
TLV	ROU	715	150	950	200			
MAK	SWE	500	100	700	150			
TLV-ACGIH			50		150			
Predicted no-effect concentrate	ation - PNEC							
Normal value in fresh water				0,18	mg	<b>1/l</b>		
Normal value in marine wate	r			0,01	mg	ı/I		
Normal value for fresh water	sediment			0,98	mg	ı/kg		
Normal value for marine wat	er sediment			0,09	mg	ı/kg		
Normal value for water, inter	mittent release			0,36	mg	<b>1/</b> I		
Normal value of STP microo	rganisms			35,6	mg	j/l		
Normal value for the terrestri	al compartment			0,09	mg	ı/kg		
Health - Derived no-effe	ect level - DNEL / I 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
nhalation	859,7 mg/m3	895,7 mg/m3	102,34 mg/m3	102,34 mg/m3	960 mg/m3	960 mg/m3	480 mg/m3	480 mg/m3
BUTANOL Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			

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RCP TLV		10						
	•	mg/m3	ppm	mg/m3	ppm			
<b>2 ethylanthraquinon</b> <b>Threshold Limit Valu</b> Type		TWA/8h		STEL/15min				
Inhalation			55 mg/m3	VND			310 mg/m3	VND
Oral			VND	3125 mg/kg				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
	Effects on consumers				Effects on workers			
Health - Derived no-	·	DMEL		-,				
Normal value for the terre				0,015	mg/kg			
Normal value of STP mic				2476	mg			
Normal value for water, in				2,25	m			
Normal value for marine	0,0178		g/kg g/kg					
Normal value for fresh wa	0,0002		g/kg					
Normal value in marine water				0,002	m			
Normal value in fresh wa				0,082	mg	1/1		
Predicted no-effect conce	entration - PNEC							
TLV-ACGIH	CVVL	61	20			JIM		
MAK	SWE	45	15	90	30	SKIN		
TLV	ROU	100	33	200	66			
NDS	POL	50		150				
OEL	NLD			45	JU	OKIN		
WEL	GBR			154	50	SKIN		
VLEP	FRA	O I	20	154	50			
TLV VLA	DNK ESP	150 61	20	154	50	SKIN		
MAK	DEU	310	100	310	100	OKIN		
AGW	DEU	310	100	310	100			
TLV	CZE	300		600		SKIN		

#### Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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

#### 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.



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When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

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

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

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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

#### EYE PROTECTION

Appearance

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

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

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

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

#### **ENVIRONMENTAL EXPOSURE CONTROLS**

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

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

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

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

Colour various typical of solvent Odour Not available Odour threshold Not available Melting point / freezing point Not available Initial boiling point > 125 °C Not available 40 °C Boiling range Flash point **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available

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Vapour pressure Not available Not available Vapour density Relative density Not available Solubility Not available Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Not available Viscosity Explosive properties Not available Oxidising properties Not available

#### 9.2. Other information

VOC (Directive 2010/75/EC) : 81,54 % VOC (volatile carbon) : 55,60 %

#### **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.

#### CYCLOHEXANONE

Attacks various types of plastic materials.

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

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

Stable in normal conditions of use and storage.

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

#### 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.

#### CYCLOHEXANONE

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

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

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

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#### 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.

#### CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

#### 10.5. Incompatible materials

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

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

#### 10.6. Hazardous decomposition products

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

#### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

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

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

#### Information on likely routes of exposure

4-HYDROXY-4-METHYLPENTAN-2-ONE

WORKERS: inhalation; contact with the skin.

2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

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

#### 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.

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

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

#### Interactive effects

Information not available

#### **ACUTE TOXICITY**

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg

AROMATIC HYDROCARBONS, C8-C10 - UVCB

LD50 (Oral) 3492 mg/kg Ratto / Rat

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

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

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

CYCLOHEXANONE

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LD50 (Oral) 1535 mg/kg Ratto / Rat

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

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

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

May cause respiratory irritation
May cause drowsiness or dizziness

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Toxic for aspiration

#### **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** 

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AROMATIC HYDROCARBONS, C8-C10 -

UVCB

LC50 - for Fish

EC50 - for Crustacea

EC50 - 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

CYCLOHEXANONE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

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

> 3,2 mg/l/48h Daphnia magna

> 2,9 mg/l/72h Pseudokirchneriella subcapitata

134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

> 500 mg/l/48h Daphnia magna

> 1000 mg/l/72h Selenastrum capricornutum OECD 201

47,5 mg/l Oryzias latipes 14 gg OECD 204 100 mg/l Dapnia magna 21 gg OECD 202

> 100 mg/l/96h Oryzias latipes

> 1000 mg/l/48h Daphnia magna

< 1000 mg/l/72h Pseudokirchneriella subcapitata

527 mg/l/96h 527 - 732 / Pimephales promelas

> 100 mg/l/48h Daphnia magna

> 100 mg/l/72h Scenedesmus subspicatus

#### 12.2. Persistence and degradability

AROMATIC HYDROCARBONS, C8-C10 -

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water

Rapidly degradable

4-HYDROXY-4-METHYLPENTAN-2-ONE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

**CYCLOHEXANONE** 

Solubility in water

Rapidly degradable

12.3. Bioaccumulative potential

> 10000 mg/l

86 mg/l

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2-METHOXY-1-METHYLETHYL ACETATE

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

**CYCLOHEXANONE** 

Partition coefficient: soil/water 1,18

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 management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

### **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, 1210

IATA:

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#### 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)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

Class: 3

Ш

Label: 3



#### 14.4. Packing group

ADR / RID, IMDG,

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 Tunnel restriction code: (D/E)

IMDG:

Special Provision: -

EMS: F-E, S-D

IATA:

Cargo:

Pass.:

Special Instructions:

Limited Quantities: 5

Maximum quantity: 220

Maximum quantity: 60 L

A3, A72, A192

Packaging instructions: 366 Packaging

instructions: 355

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

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#### **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** 

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Substances in Candidate List (Art. 59 REACH)

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. 3 Flammable liquid, category 3

Acute Tox. 4 Acute toxicity, category 4

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Asp. Tox. 1 Aspiration hazard, category 1

Eye Dam. 1 Serious eve damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

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

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

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

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).

## $V K \subset U P S$

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- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament

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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.

Changes to previous review:

The following sections were modified:

02 / 03 / 09 / 11.