

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

**1.1. Product identifier**

Product name **BA SERIES**

UFI : **HU80-20HY-Y000-TV20**

**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 NOW CORP.**  
 Full address **310 Andover St.**  
 District and Country **Danvers, MA. 01923**  
**U.S.A.**

**Tel. 9786468980**

**Fax 9786468981**

e-mail address of the competent person

responsible for the Safety Data Sheet **compliance@inkcups.com**  
 Product distribution by: **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 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.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

### 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.  
**H318** Causes serious eye damage.  
**H336** May cause drowsiness or dizziness.  
**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue 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.  
**P261** Avoid breathing dust, gas or vapours.

**Contains:** CYCLOHEXANONE  
2-METHOXY-1-METHYLETHYL ACETATE  
Hydrocarbons, C10, aromatics  
AROMATIC HYDROCARBONS, C9

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

### 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

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>2-METHOXY-1-METHYLETHYL ACETATE</b>		
CAS 108-65-6	21 ≤ x < 22,5	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9		
INDEX 607-195-00-7		
Reg. no. 01-2119475791-29-xxxx		
<b>BUTYLGLYCOL ACETATE</b>		
CAS 112-07-2	19,5 ≤ x < 21	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332
EC 203-933-3		
INDEX 607-038-00-2		
Reg. no. 01-2119475112-47xxxx		
<b>CYCLOHEXANONE</b>		
CAS 108-94-1	4,5 ≤ x < 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		
<b>Hydrocarbons, C10, aromatics</b>		
CAS -	2,5 ≤ x < 3	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC 918-811-1		
INDEX -		
Reg. no. 01-2119463583-34-xxxx		

# INKCUPS

Dated 1/1/2022

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

Page n. 4/22

### AROMATIC HYDROCARBONS, C9

CAS 64742-95-6

$0,7 \leq x < 0,8$

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

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. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

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

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

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

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

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

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

### 6.2. Environmental precautions

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

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

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

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

### 6.4. Reference to other sections

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

## 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

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

### 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	KİMYASAL MADDELERLE ÇALIŞMALARDA SAĞLIK VE GÜVENLİK ÖNLEMLERİ HAKKINDA YÖNETMELİK - Resmi Gazete Tarihi: 12.08.2013 Resmi Gazete Sayısı: 28733
EU	TLV-ACGIH RCP TLV	ACGIH 2018 ACGIH TLVs and BEIs – Appendix H

### 2-METHOXY-1-METHYLETHYL ACETATE

#### Threshold Limit Value

Type	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	
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	SKIN
OEL	EU	275	50	550	100	

#### Predicted no-effect concentration - PNEC

Normal value in fresh water 0,635 mg/l

# INKCUPS

Dated 1/1/2022

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

Page n. 7/22

Normal value in marine water	0,0635	mg/l
Normal value for fresh water sediment	3,29	mg/kg
Normal value for marine water sediment	0,329	mg/l
Normal value for water, intermittent release	6,35	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,29	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,67 mg/kg				
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

### BUTYLGLYCOL ACETATE

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	133		333		SKIN
TLV	CZE	130		300		SKIN
AGW	DEU	65	10	260	40	
MAK	DEU	130	20	520	80	SKIN
TLV	DNK	130	20			SKIN
VLA	ESP	133	20	333	50	SKIN
VLEP	FRA	66,5	10	333	50	SKIN
WEL	GBR	133	20	332	50	SKIN
VLEP	ITA	133	20	333	50	SKIN
OEL	NLD	135		333		SKIN
NDS	POL	100		300		
VLE	PRT	133	20	333	50	SKIN
TLV	ROU	133	20	333	50	SKIN
MAK	SWE	70	10	140	20	SKIN
ESD	TUR	133	20	333	50	SKIN
OEL	EU	133	20	333	50	SKIN
TLV-ACGIH		131	20			

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,304	mg/l
Normal value in marine water	0,03	mg/l
Normal value for fresh water sediment	2,03	mg/l
Normal value for marine water sediment	0,203	mg/l
Normal value for water, intermittent release	0,56	mg/l





# INKCUPS

Dated 1/1/2022

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

Page n. 9/22

Oral				1,5 mg/kg bw/d				
Inhalation		VND		10 mg/m3		VND		40 mg/m3
Skin		VND		1 mg/kg bw/d		VND		4 mg/kg bw/d

### Hydrocarbons, C10, aromatics

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	7,5 mg/kg/d				
Inhalation			VND	32 mg/m3			VND	151 mg/m3
Skin			VND	7,5 mg/kg/d			VND	12,5 mg/kg/d

### AROMATIC HYDROCARBONS, C8-C10 - UVCB

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	100	20			1,2,3 trimetilbenzene
OEL	EU	100	20			1,2,3 trimetilbenzene
TLV-ACGIH			25			1,2,3 trimetilbenzene

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	11 mg/kg				11 mg/kg bw/d
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg			VND	25 mg/kg

### Traduci da: Indonesiano

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0032	mg/l
Normal value in marine water	0,0032	mg/l
Normal value for fresh water sediment	15,6	mg/kg
Normal value for water, intermittent release	0,0032	mg/l
Normal value of STP microorganisms	35	mg/l
Normal value for the terrestrial compartment	0,865	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,3 mg/kg bw/d						
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d

# INKCUPS

Dated 1/1/2022

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

Page n. 10/22

### 2 ethylanthraquinone

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
RCP TLV		10			

### 4,4'-ISOPROPYLIDENEDIPHENOL

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLA	ESP	10			
VLEP	FRA	10			
VLEP	ITA	10			
MAC	NLD	10			
NDS	POL	2			
VLE	PRT	10			
OEL	EU	2			INHAL

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,018	mg/l
Normal value in marine water	0,016	mg/l
Normal value of STP microorganisms	320	mg/l
Normal value for the terrestrial compartment	3,7	mg/kg

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Chronic local	Chronic systemic
Oral					0,05 mg/kg bw/d		0,05 mg/kg bw/d
Inhalation	5 mg/m3	5 mg/m3	5 mg/m3	0,25 mg/m3	10 mg/m3		10 mg/m3
Skin		0,7 mg/kg bw/d		0,7 mg/kg bw/d	1,4 mg/kg bw/d		1,4 mg/kg bw/d

Legend:

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

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

### 8.2. Exposure controls

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

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

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

### 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 soap and water after removing protective clothing.

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

### EYE PROTECTION

Wear 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.

## SECTION 9. Physical and chemical properties

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

Appearance	liquid
Colour	various
Odour	typical of solvent
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	> 140 °C
Boiling range	Not available
Flash point	40 °C
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
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	Not available

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

**9.2. Other information**

VOC (Directive 2010/75/EC) :	50,16 %
VOC (volatile carbon) :	30,57 %

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

**2-METHOXY-1-METHYLETHYL ACETATE**

Stable in normal conditions of use and storage.

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

**CYCLOHEXANONE**

Attacks various types of plastic materials.

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

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

The vapours may also form explosive mixtures with the air.

**2-METHOXY-1-METHYLETHYL ACETATE**

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

**CYCLOHEXANONE**

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

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

**10.4. Conditions to avoid**

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

## CYCLOHEXANONE

Avoid exposure to: sources of heat, naked flames.

**10.5. Incompatible materials**

## 2-METHOXY-1-METHYLETHYL ACETATE

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

**10.6. Hazardous decomposition products**

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

**SECTION 11. Toxicological information**

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

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

**11.1. Information on toxicological effects**

Hydrocarbons, C10, aromatics, <1% naphthalene

Specific target organ toxicity (STOT) - single exposure:  
NOAEC > 600 mg / kg Inhalation. Rat

Metabolism, toxicokinetics, mechanism of action and other information

## 2-METHOXY-1-METHYLETHYL ACETATE

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

Information on likely routes of exposure

## 2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

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

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

## 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

Hydrocarbons, C10, aromatics, <1% naphthalene

LD50 (Oral) 6318 mg/kg Ratto / Rat

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

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

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

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer

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

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

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral) 8500 mg/kg Ratto / Rat

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

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

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

### CYCLOHEXANONE

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)

### BUTYLGLYCOL ACETATE

LD50 (Oral) 1880 mg/kg Ratto / Rat

LD50 (Dermal) 1500 mg/kg Coniglio / Rabbit

LC50 (Inhalation) 0,4 mg/l/4h Ratto - Rat

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

May cause drowsiness or dizziness

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## SECTION 12. Ecological information

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

### **12.1. Toxicity**

#### Hydrocarbons, C10, aromatics

LC50 - for Fish	> 2 mg/l/96h
EC50 - for Crustacea	> 3 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h

#### AROMATIC HYDROCARBONS, C8-C10 - UVCB

LC50 - for Fish	> 9,2 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 3,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 2,9 mg/l/72h Pseudokirchneriella subcapitata

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

LC50 - for Fish	134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203
EC50 - for Crustacea	> 500 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h Selenastrum capricornutum OECD 201
Chronic NOEC for Fish	47,5 mg/l Oryzias latipes 14 gg OECD 204
Chronic NOEC for Crustacea	100 mg/l Daphnia magna 21 gg OECD 202

#### CYCLOHEXANONE

LC50 - for Fish	527 mg/l/96h 527 - 732 / Pimephales promelas
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Scenedesmus subspicatus

#### BUTYLGLYCOL ACETATE

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



## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

### 12.2. Persistence and degradability

Hydrocarbons, C10, aromatics

Solubility in water immiscibile in H2O mg/l

Rapidly degradable

AROMATIC HYDROCARBONS, C8-C10 -  
UVCB

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

CYCLOHEXANONE

Solubility in water 86 mg/l

Rapidly degradable

BUTYLGLYCOL ACETATE

Solubility in water 15000 mg/l

Rapidly degradable

### 12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

BCF 100

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

BUTYLGLYCOL ACETATE

Partition coefficient: n-octanol/water 1,51

### 12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

### 12.5. Results of PBT and vPvB assessment

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

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, IATA: 1210

### 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	Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: III

# INKCUPS

Dated 1/1/2022

## BA SERIES

110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,

Page n. 19/22

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 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

### 14.7. Transport in bulk according to Annex II 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)

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:

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

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:

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

### 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)
  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 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.

# INKCUPS

Dated 1/1/2022

## BA SERIES

**110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD,**

Page n. 22/22

Provide appointed staff with adequate training on how to use chemical products.

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Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 08 / 11 / 12.