I N K	CUPS	Dated 01/01/2022
G	N Series	Page n. 1/18
Acc	Safety Data Sheet ording to Annex II to REACH - Regulation 2015/830	
SECTION 1. Identification of the su	bstance/mixture and of the company/under	такілд
1.1. Product identifier Product name	GN Series	
1.2. Relevant identified uses of the substance o Intended use Pad printing ink	r mixture and uses advised against	
1.3. Details of the supplier of the safety data she Name Full address District and Country	eet INKCUPS NOW CORP. 310 Andover St. Danvers, MA. 01923 U.S.A. Tel 9786468980	
	Fax 0786/68081	
e-mail address of the competent person	1 ax 5700 4 00501	
responsible for the Safety Data Sheet Product distribution by:	compliance@inkcups.com 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 not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830. Hazard classification and indication:

2.2. Label elements

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

Hazard pictograms: --Signal words: --

Hazard statements:

EUH210

Safety data sheet available on request.

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Precautionary statements:

P261 P280 P333+P313 P362+P364 P273 Avoid breathing dust, gas or vapours. Wear protective gloves / protective clothing / eye protection / face protection. If skin irritation or rash occurs: Get medical advice / attention. Take off contaminated clothing and wash it before reuse. Avoid release to the environment.

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
BUTYLGLYCOL ACETATE		
CAS 112-07-2	$40 \le x \le 42,5$	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		
N-BUTYL ACETATE		
CAS 123-86-4	$0,3 \le x \le 0,4$	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC 204-658-1		
INDEX 607-025-00-1		
Reg. no. 01-2119485493-29-xxxx		
2-METHOXY-1-METHYLETHYL ACETATE		
CAS 108-65-6	$0,2 \le x \le 0,3$	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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person,

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

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.

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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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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. 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 (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
		stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-
		0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van
		Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
	5	trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes guímicos no
		trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind
		stabilirea cerintelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor
		împotriva riscurilor legate de prezenta agentilor chimici
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
TUR	Türkiye	23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831: Directive (EU) 2019/130: Directive (EU) 2019/983: Directive (EU) 2017/2398:
		Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
		2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

BUTYLGLYCOL ACETATE

Type Country TWA/8h STEL/15min Remarks / Observations	Threshold Limit Value					
C D C C T C C C C C C C C C C C C C C C	Туре	Country	TWA/8h	STEL/15min	Remarks / Observations	

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		ma/m3	nnm	ma/m3	nnm			
TLV	BGR	133	20	333	50	SKIN		
		130	10.5	300	45	SKIN		
		65	10,0	130 (C)	20 (C)	SKIN	11	
MAK	DEU	66	10	132	20 (0)	SKIN	Hinweis	
TLV	DNK	134	20			SKIN	E	
VLA	ESP	133	20	333	50	SKIN		
VLEP	FRA	66,5	10	333	50			
VLEP	ITA	133	20	333	50	SKIN		
TGG	NLD	135		333		SKIN		
VLE	PRT	133	20	333	50	SKIN		
NDS/NDSCh	POL	100		300		SKIN		
TLV	ROU	133	20	333	50	SKIN		
NGV/KGV	SWE	70	10	333	50	SKIN		
ESD	TUR	133	20	333	50	SKIN		
WEL	GBR	133	20	332	50	SKIN		
OEL	EU	133	20	333	50	SKIN		
TLV-ACGIH		131	20					
Predicted no-effect concentration	- PNEC							
Normal value in fresh water				0,304	mg/	1		
Normal value in marine water				0,03	mg/	1		
Normal value for fresh water sedir	ment			2,03	mg/	1		
Normal value for marine water see	diment			0,203	mg/	1		
Normal value for water, intermitte	nt release			0,56	mg/	1		
Normal value of STP microorgania	sms			90	mg/	1		
Normal value for the food chain (s	econdary poisonin	ig)		60	mg/	kg		
Normal value for the terrestrial co	mpartment			0,415	mg/	kg/d		
Health - Derived no-effect le	evel - DNEL / DI	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	VND	36 mg/kg/d	VND	4,3 mg/kg/d		oyotonno		oyotonno
Inhalation	200 mg/m3	499 mg/m3	VND	80 mg/m3	333 mg/m3	773 mg/m3	VND	133 mg/m3
Skin		72 mg/kg bw/d	VND	102 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	169 mg/kg/d
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks /	ne	
		mg/m3	ppm	mg/m3	ppm	Observatio	/15	
TLV	ROU	200		300		SKIN		
N-BUTYL ACETATE								
Threshold Limit Value	Country	TW/A/8b		STEL/15min		Remarks /		
1,162	Journay	1 W VOIT				Observatio	ons	

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		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	710		950					
TLV	CZE	950	196,65	1200	248,4				
AGW	DEU	300	62	600 (C)	124 (C)				
TLV	DNK	710	150						
VLA	ESP	724	150	965	200				
VLEP	FRA	710	150	940	200				
TGG	NLD	150							
NDS/NDSCh	POL	240		720					
TLV	ROU	715	150	950	200				
NGV/KGV	SWE	500	100	700 (C)	150 (C)				
WEL	GBR	724	150	966	200				
OEL	EU	241	50	723	150				
TLV-ACGIH			50		150				
Predicted no-effect concentration	- PNEC								
Normal value in fresh water				0,18	mg	/I			
Normal value in marine water				0,01	mg	/I			
Normal value for fresh water sediment				0,98	mg	/kg			
Normal value for marine water see	diment			0,09	mg/kg				
Normal value for water, intermitter	nt release			0,36),36 mg/l				
Normal value of STP microorganis	sms			35,6	mg	/I			
Normal value for the terrestrial con	mpartment			0,09	mg	/kg			
Health - Derived no-effect le	vel - DNEL / DN	IEL			Effecto en				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic svstemic	Acute local	Acute svstemic	Chronic local	Chronic svstemic	
Inhalation	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	
				mg/mo					
2-METHOXY-1-METHYLETH	YL ACETATE								
Type	Country	TWA/8h		STEL/15min		Remarks /			
		ma/m3	nnm	ma/m3	nnm	Observatio	ns		
TLV	BGR	275	50	550	100	SKIN			
	CZE	270	49 14	550	100 1	SKIN			
AGW	DELL	270	50	270	50	GIAN			
MAK	DEU	270	50	270	50				
		275	50	210	00	SKIN	F		
		275	50	550	100	QKIN	L		
		210	50	550	100	SKIN			
		210	50	550	100	SKIN			
VLEP	IIA	2/5	50	550	100	SKIN			

 TGG
 NLD
 550

 VLE
 PRT
 275
 50
 550
 100
 SKIN

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NDS/NDSCh	POL	260		520		SKIN		
TLV	ROU	275	50	550	100	SKIN		
NGV/KGV	SWE	275	50	550	100	SKIN		
ESD	TUR	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concentrati	on - PNEC							
Normal value in fresh water				0,635	mg	/I		
Normal value in marine water				0,0635	mg	/I		
Normal value for fresh water se	ediment			3,29	mg	/kg		
Normal value for marine water	sediment			0,329	mg	/I		
Normal value for water, intermittent release				6,35	mg	/I		
Normal value of STP microorga	anisms			100	mg	/I		
Normal value for the terrestrial	compartment			0,29	mg/kg			
Health - Derived no-effec	t level - DNEL / [OMEL						
	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	1,67 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
BUTANOL Threshold Limit Value								

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	100		150			
TLV	CZE	300	97,5	600	195		
AGW	DEU	310	100	310	100		
MAK	DEU	310	100	310	100		
TLV	DNK			150 (C)	50 (C)	SKIN	
VLA	ESP	61	20	154	50		
VLEP	FRA			150	50		
TGG	NLD			45			
NDS/NDSCh	POL	50		150		SKIN	
TLV	ROU	100	33	200	66		
NGV/KGV	SWE	45	15	90	30	SKIN	
WEL	GBR			154	50	SKIN	
TLV-ACGIH		61	20				
Predicted no-effect concentrati	on - PNEC						
Normal value in fresh water				0,082	mg	/I	
Normal value in marine water				0,0082	mg	/I	

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Normal value for fresh wate	r sediment			0,178	mg	ı/kg		
Normal value for marine wa	ter sediment			0,0178	mg	ı/kg		
Normal value for water, intermittent release				2,25	mg	J/I		
Normal value of STP microorganisms				2476	mg	J/I		
Normal value for the terrestrial compartment				0,015	mg	ı/kg		
Health - Derived no-eff	ect level - DNEL / D	DMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3125 mg/kg				
Inhalation			55 mg/m3	VND			310 mg/m3	VND

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.

HAND PROTECTION

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

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

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

SKIN PROTECTION

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	various
Odour	typical of solvent
Odour threshold	Not available
pН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °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	partially soluble in water
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) :	42,48 %
VOC (volatile carbon) :	25,72 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

N-BUTYL ACETATE

Decomposes on contact with: water.

2-METHOXY-1-METHYLETHYL ACETATE

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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

No hazardous reactions are foreseeable in normal conditions of use and storage.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

2-METHOXY-1-METHYLETHYL ACETATE

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

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

N-BUTYL ACETATE

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

10.5. Incompatible materials

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

2-METHOXY-1-METHYLETHYL ACETATE

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

10.6. Hazardous decomposition products

Information not available

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.

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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

N-BUTYL ACETATE

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

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

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

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

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

2-METHOXY-1-METHYLETHYL ACETATE

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LD50 (Oral) 8500 mg/kg Ratto / Rat

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

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

N-BUTYL ACETATE

- LD50 (Oral) > 10000 mg/kg Rat
- LD50 (Dermal) > 14000 mg/kg Rabbit
- LC50 (Inhalation) > 21 mg/l/4h Rat

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

Does not meet the classification criteria for this hazard class

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

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Does not meet the classification criteria for this hazard class

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

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

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 Dapnia magna 21 gg OECD 202
N-BUTYL ACETATE	
LC50 - for Fish	18 mg/l/96h Pimephales promelas
EC50 - for Crustacea	44 mg/l/48h Daphnia Magna
EC10 for Algae / Aquatic Plants	674,7 mg/l/72h Desmodesmus subspicatus

23 mg/l 21d/ Daphnia magna

> 20 mg/l/96h Fish 20-40 mg/kg (48h)

145 mg/l/24h Daphnia Magna (24h) 1570 mg/l/72h Scenedesmus subspicatus

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

Chronic NOEC for Crustacea

12.2. Persistence and degradability

2-METHOXY-1-METHYLETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable	
N-BUTYL AGETATE	
Solubility in water	5,3 mg/l
Rapidly degradable	

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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
N-BUTYL ACETATE	
Partition coefficient: n-octanol/water	2.3
BCF	15,3
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
N-BUTYL ACETATE	
Partition coefficient: soil/water	< 3
12.5. Results of PBT and vPvB assessment	-

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

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The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

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Seveso Category - Directive 2012/18/EC: None	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product Point 40	
Substances in Candidate List (Art. 59 REACH)	
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.	
Substances subject to authorisation (Annex XIV REACH)	
None	
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:	
None	
Substances subject to the Rotterdam Convention:	
None	
Substances subject to the Stockholm Convention:	
None	
Healthcare controls	
Information not available	
15.2. Chemical safety assessment	

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

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Safety data sheet available on request.

- I FGEND.
- 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
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
 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)

- Regulation (EU) 2010/1776 (X Atp. CLP)
 Regulation (EU) 2017/776 (X Atp. CLP)
 Regulation (EU) 2018/669 (XI Atp. CLP)
 Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII 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.

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The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03 / 07 / 09 / 10 / 11 / 12.