

AGER

Revision nr.40 Dated 25/03/2020

Printed on 25/03/2020 Page n. 1 / 14 Replaced revision:39 (Dated 20/09/2019)

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

AGER Product name

Chemical name and synonym **WAXES IN SOLUTION**

1.2. Relevant identified uses of the substance or mixture and uses advised against

PRIMER FOR NATURAL STONE.

Identified Uses	Industrial	Professional	Consumer	
ADHESIVE SYSTEM/TREATMENT FOR STONE				
SECTOR	-	✓	-	
.3. Details of the supplier of the safety data sheet				

1.3

Name Tenax Spa Full address Via I Maggio, 226 37020 Volargne **District and Country** Italy

+39 045 6887593 Tel +39 045 6862456 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet msds@tenax.it

1.4. Emergency telephone number

For urgent inquiries refer to 800.883300 (24h) Centro Antiveleni (Bergamo)

0 800 314 7900 (Turkey) only, or +90 0312 433 70 01 Toxicology Department and

(VR)

Poisons Centre

+98 21 6419306 / +98 21 6405569 **Poisons Information Centre (Tehran)**

+91 484 4008056 Poison Control Centre (South India)

(011) 642 2417 / (011) 488 3108 **Anti-Poison Centre (Johannesburg)**

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 2 H225 Highly flammable liquid and vapour. Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways. Eye irritation, category 2 H319 Causes serious eye irritation. Specific target organ toxicity - single exposure, H336 May cause drowsiness or dizziness. category 3

2.2. Label elements

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

Hazard pictograms:





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SECTION 2. Hazards identification .../>>

Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P233 Keep container tightly closed.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor / . . .
P501 Dispose of contents / container according to applicable law.

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

ETHYL ACETATE N-BUTYL 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

3.2. Mixtures

Contains:

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

ETHYL ACETATE

CAS 141-78-6 $20 \le x < 30$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5

Reg. no. 01-2119475103-46-0000

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS $64742-48-9 \quad 10 \le x < 20$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066,

Classification note according to Annex VI to the CLP Regulation: H P

EC 919-857-5

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Reg. no. 01-2119463258-33-0000

N-BUTYL ACETATE

CAS 123-86-4 $1 \le x < 3.5$ Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1 INDEX 607-025-00-1 Reg. no. 01-2119485493-29

METHANOL

CAS 67-56-1 0,15 \leq x < 0,2 Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331,

STOT SE 1 H370

EC 200-659-6 INDEX 603-001-00-X Reg. no. 01-2119433307-44

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.



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SECTION 4. First aid measures/>

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

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

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.



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

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 ændring af bekendtgørelse om grænseværdier for stoffer og materialer1- BEK nr 655 af 31/05/2018
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
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
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
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 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 - Diário da República, 1.º série - N.º 111 - 11 de junho de 2018
SVN	Slovenija	Uradni list Republike Slovenije 04.12.2018 - Uradnem listu RS št. 78 -PRAVILNIK o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
EU	OEL ĔU	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 91/322/EEC.
	TLV-ACGIH	ACGIH 2019



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SECTION 8. Exposure controls/personal protection

				ETHYL	ACETATE				
reshold Limit V									
Туре	Country	TWA/8h		STEL/15		Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	700	194,6	900	250,2				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
TLV	DNK	540	150						
VLA	ESP	734	200	1468	400				
VLEP	FRA	1400	400						
WEL	GBR	734	200	1468	400				
TLV	GRC	734	200	1468	400				
VLEP	ITA	734	200	1468	400				
TGG	NLD	734		1468					
TLV	NOR	734	200						
NDS/NDSCh	POL	734		1468					
VLE	PRT	734	200	1468	400				
MV	SVN	734	200	1468	400				
NGV/KGV	SWE	550	150	1100	300				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
redicted no-effe	ct concentra	ation - PNE	С						
Normal value in	fresh water						0,24	mg/l	
Normal value in	marine water	er					0,024	mg/l	
Normal value for	or fresh wate	r sediment					1,15	mg/kg	
Normal value for	or marine wa	ter sedimen	t				0,115	mg/kg	
Normal value for	r water, inte	rmittent rele	ase				1,65	mg/l	
Normal value of	f STP microc	organisms					650	mg/l	
Normal value for			ment				0,148	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL				,	0 0	
	Effe	cts on cons	umers			Effects on w	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca		stemic	local	systemic	local	systemic	local	systemic
Oral		,		12.23	4,5 mg/kg/d		- ,		- ,
Inhalation	734 mg/		4 g/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin	J.	•		Ŭ	37 mg/kg bw/d	Ŭ	Ü	J	63 mg/kg
					.33				bw/d

		Hydroca	bons, C9-	C11, n-alkanes	isoalkanes, c	yclics, <2% a	aromatics		
hreshold Limit Va	lue								
Type Country		TWA/8h		STEL/15	STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		1200	197						
ealth - Derived no	-effect leve	I - DNEL /	DMEL						
	Effect	ts on consu	ımers			Effects on workers			
Route of exposur	e Acute	e Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	sys	temic	local	systemic	local	systemic	local	systemic
Oral		•			125		•		871
					mg/kg bw/d				
Inhalation					900				871
					mg/m3				mg/m3
Skin		125	5		125				
					mg/kg bw/d				



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SECTION 8. Exposure controls/personal protection

				N-BUTY	L ACETATE				
hreshold Limit \	/alue								
Type Country TWA/8h		STEL/15r	min	Remarks / Obs	ervations				
,,	•	mg/m3	ppm	mg/m3	ppm				
TLV	CZE	950	200,45	1200	253,2				
AGW	DEU	300	62	600 (C)	124 (C)				
TLV	DNK	710	150	,	,				
VLA	ESP	724	150	965	200				
VLEP	FRA	710	150	940	200				
WEL	GBR	724	150	966	200				
TLV	GRC	710	150	950	200				
TGG	NLD	150							
TLV	NOR		75						
NDS/NDSCh	POL	240		720					
MV	SVN	300	62	600	124				
NGV/KGV	SWE	500	100	700 (C)	150 (C)				
TLV-ACGIH			50	` ,	150				
redicted no-effe	ct concentr	ation - PNE	C						
Normal value ir	n fresh water						0,18	mg/l	
Normal value in	n marine wate	er					0,018	mg/l	
Normal value for	or fresh wate	r sediment					0,981	mg/kg	
Normal value for	or marine wa	ter sedimen	ıt				0,0981	mg/kg	
Normal value for	or water, inte	rmittent rele	ease				0,36	mg/l	
Normal value o	f STP micro	organisms					35,6	mg/l	
Normal value for	or the terrest	rial compart	ment				0,0903	mg/kg	
lealth - Derived i	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers			Effects on worke	rs		
Route of expos	ure Acu	te Ac	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sy	stemic	local	systemic	local	systemic	local	systemic
Oral		2			2				
		mg	g/kg bw/d		mg/kg bw/d				
Inhalation	300	30	0	37,5	37,5	600	600	300	300
	mg/	m3 mg	g/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin		6			6		11		11
		m	g/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
							bw/d		bw/d

METHANOL METHANOL										
Threshold Limit V	/alue									
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	250	188,5	1000	754	SKIN				
AGW	DEU	270	200	1080	800	SKIN				
MAK	DEU	130	100	260	200	SKIN				
TLV	DNK	260	200			SKIN E				
VLA	ESP	266	200			SKIN				
VLEP	FRA	260	200	1300	1000	SKIN 11				
WEL	GBR	266	200	333	250	SKIN				
TLV	GRC	260	200	325	250					
VLEP	ITA	260	200			SKIN				
TGG	NLD	133				SKIN				
TLV	NOR	130	100			SKIN				
NDS/NDSCh	POL	100		300		SKIN				
VLE	PRT	260	200			SKIN				
MV	SVN	260	200	1040	800	SKIN				
NGV/KGV	SWE	250	200	350 (C)	250 (C)	SKIN				
OEL	EU	260	200			SKIN				
TLV-ACGIH		262	200	328	250	SKIN				

(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.



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SECTION 8. Exposure controls/personal protection

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 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.

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

FYF 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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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

9.1. Information on basic physical and chemical properties

Properties Value Information Appearance liquid Colour colourless Odour typical Odour threshold Not available рΗ Not available

Melting point / freezing point Not available Initial boiling point 35 °C Boiling range Not available Flash point 23 °C Not available **Evaporation Rate** 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 soluble in organic solvents Solubility

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

9.2. Other information

VOC (Directive 2010/75/EC): 43,34 % - 476,79 g/litre VOC (volatile carbon): 29.30 % -322.33



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SECTION 10. Stability and reactivity

10.1. Reactivity

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

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

N-BUTYL ACETATE

Decomposes on contact with: water.

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.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

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.

10.4. Conditions to avoid

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

ETHYL ACETATE

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

N-BUTYL ACETATE

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

10.5. Incompatible materials

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

N-BUTYL ACETATE

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

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

Information not available

Information on likely routes of exposure

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

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



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SECTION 11. Toxicological information/>>

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.

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

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

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, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics LD50 (Oral) > 5000 mg/kg rat LD50 (Dermal) > 5000 mg/kg rabbit LC50 (Inhalation) > 4951 mg/l/4h rat

ETHYL ACETATE

 LD50 (Oral)
 5620 mg/kg ratto

 LD50 (Dermal)
 > 20000 mg/kg coniglio

 LC50 (Inhalation)
 > 6000 ppm/4h ratto

N-BUTYL ACETATE

 LD50 (Oral)
 > 6400 mg/kg Rat

 LD50 (Dermal)
 > 5000 mg/kg Rabbit

 LC50 (Inhalation)
 21,1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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 drowsiness or dizziness

STOT - REPEATED EXPOSURE



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11. Toxicological information

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

LC50 - for Fish > 1000 mg/l/96h Oncorhyncus mykiss EC50 - for Crustacea 1000 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Pseudokirchneriella subcapitalina

ETHYL ACETATE

230 mg/l/96h pimephales promelas LC50 - for Fish

EC50 - for Crustacea 165 mg/l/48h daphnia

N-BUTYL ACETATE

LC50 - for Fish 18 mg/l/96h pimephales promelas

EC50 - for Crustacea > 44 mg/l/48h daphnia

EC50 - for Algae / Aquatic Plants 675 mg/l/72h Chronic NOEC for Crustacea 23 mg/l 21d

12.2. Persistence and degradability

METHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

N-BUTYL ACETATE

1000 - 10000 mg/l Solubility in water

Rapidly degradable

12.3. Bioaccumulative potential

METHANOL

Partition coefficient: n-octanol/water -0,77BCF 0,2

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF** 30

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 15,3 **BCF**

12.4. Mobility in soil

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 greater than 0,1%.



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Ecological information

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: 1993

14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2%

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% IMDG:

aromatics)

FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% IATA:

aromatics)

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:

14.5. Environmental hazards

ADR / RID: NO NO IMDG: IATA: NO

14.6. Special precautions for user

Limited Quantities: 1 L Tunnel restriction code: (D/E) ADR / RID: HIN - Kemler: 33

Special Provision: 640C . EMS: F-E, <u>S-E</u> IMDG:

Packaging instructions: 364 IATA: Cargo: Maximum quantity: 60 L Pass: Maximum quantity: 5 L Packaging instructions: 353

Limited Quantities: 1 L

Special Instructions: **A3**

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: P56

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)

Vone

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

A chemical safety assessment has been performed for the following contained substances

ETHYL ACETATE

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

N-BUTYL ACETATE

SECTION 16. Other information

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

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1 Eye Irrit. 2 Eye irritation, category 2

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

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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

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SECTION 16. Other information/>>

- 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)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. 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.

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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

02 / 08 / 15.



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SECTION 16. Other information

Changed TLVs in section 8.1 for following countries: DEU,	
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