

VITOSIN

Revision nr.9 Dated 17/01/2023 Printed on 31/08/2023 Page n. 1 / 15

Replaced revision:8 (Dated 22/03/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name VITOSIN

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

Intended use Solvent based primer

1.3. Details of the supplier of the safety data sheet

Name VITEX S.A. Full address IMEROS TOPOS

District and Country 19300 ASPROPYRGOS (ATTIKI)

GREECE

Tel. (0030) 2105589400 Fax (0030) 2105597859

e-mail address of the competent person

responsible for the Safety Data Sheet vitexlab@vitex.gr

Supplier: VITEX S.A

1.4. Emergency telephone number

For urgent inquiries refer to (0030) 2105589400

(0030) 2107793777

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 2020/878

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.

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:





Signal words: Warning

Hazard statements:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Precautionary statements:

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

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SECTION 2. Hazards identification .../>>

P102 Keep out of reach of children.

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

Use only outdoors or in a well-ventilated area. P271

P405 Store locked up.

P501 Dispose of contents / container in accordance with local and national regulations.

Contains: HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

VOC (Directive 2004/42/EC):

Binding primers.

VOC given in g/litre of product in a ready-to-use condition : 499 00 750,00

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

64742-48-9 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066 CAS $20 \le x < 30$

EC 919-857-5

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REACH Reg. 01-2119463258-33-XXXX

Reaction mass of ethylbenzene and m-xylene and p-xylene

 $2 \le x < 3$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

> STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the

CLP Regulation: C

STA Dermal: 1100 mg/kg, LC50 Inhalation vapours: >10 mg/l/4h FC 905-562-9

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REACH Reg. 01-2119488216-32-XXXX XYLENE (MIXTURE OF ISOMERS)

 $0,1 \le x < 0,2$ CAS 1330-20-7 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C STA Dermal: 1100 mg/kg, LC50 Inhalation vapours: >10 mg/l/4h

FC 215-535-7

601-022-00-9 INDEX

REACH Reg. 01-2119488216-XXXX

ACETONE

CAS

67-64-1 $0.05 \le x < 0.1$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

FC 200-662-2 INDEX 606-001-00-8

ETHYLBENZENE

CAS 100-41-4 $0.05 \le x < 0.1$

Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373

EC 202-849-4 LC50 Inhalation vapours: 17,2 mg/l/4h 601-023-00-4 INDFX

N-BUTYL ACETATE

CAS 123-86-4 $0 \le x < 0.05$

Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1 INDEX 607-025-00-1

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



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SECTION 4. First aid measures

4.1. Description of first aid measures

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

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

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

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

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.



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SECTION 6. Accidental release measures .../>>

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 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

Dogulatory	References:
Reduiatory	Neielelices.

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 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	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; 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 2022



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	SECTION 8. Exposure controls/personal protection	/ >>
1		

	H'	YDROCAF	RBONS.	C9-C11	n-ALKANES.	ISOALKANE	S, CYCLICS, <2º	6 AROMATIC	S	
Threshold Lim			,		,		.,			
Type	Country	y TWA	\/8h		STEL/15	min	Remarks / Ol	oservations		
		mg/r	m3	ppm	mg/m3	ppm				
MAK	DEU	300		50	600	100				
OEL	EU	1200)							
Health - Derive	d no-effect	level - DN	IEL / DN	IEL						
Effects on consumers						Effects on worl	Effects on workers			
Route of exp	osure A	Acute	Acute		Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	lo	ocal	syster	nic	local	systemic		systemic	local	systemic
Oral					VND	300				
						mg/kg/d				
Inhalation					VND	900	VND	1500		
						mg/m3		mg/m3		
Skin					VND	300			VND	300
						mg/kg/d				mg/kg/d

	Reaction mass of ethylbenzene and m-xylene and p-xylene								
Threshold Limit	: Value								
Type	Country	TWA/8h	TWA/8h		min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	221		442		SKIN			
TLV	CZE	200		400		SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
TLV	GRC	435	100	650	150	SKIN			
AK	HUN	221		442		SKIN			
GVI/KGVI	HRV	221	50	442	100	SKIN			
NPEL	SVK	221	50	442		SKIN			
WEL	GBR	220	50	441	100				
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
Health - Derived	l no-effect lev	el - DNEL /	DMEL						

Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects on	consumers		Effects on wor	kers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral			VND	1,6				
				mg/kg/d				
Inhalation	174	174	VND	14,8	289	289	VND	77
	mg/m3	mg/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin			VND	108			VND	180
				mg/kg/d				mg/kg/d



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SECTION 8. Exi	posure controls/	personal pro	otection/	>>

)	YLENE (MIXT	URE OF ISO	MERS)			
Threshold Limit	Value			·					
Type	Country	TWA/8	h	STEL/15	min	Remarks / Ob	servations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	221		442		SKIN			
TLV	CZE	200		400		SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
TLV	GRC	435	100	650	150	SKIN			
AK	HUN	221		442		SKIN			
GVI/KGVI	HRV	221	50	442	100	SKIN			
NPEL	SVK	221	50	442		SKIN			
WEL	GBR	220	50	441	100				
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
Health - Derived	no-effect I	evel - DNEL	. / DMEL						
	E	ffects on cor	sumers			Effects on work	ers		
Route of expos	sure A	cute A	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	lo	cal s	ystemic	local	systemic		systemic	local	systemic
Oral				VND	1,6				

Roule of exposure	Acute	Acute	Chilotic	Chilothic	Acute local	Acute	CHIOHIC	Chionic
	local	systemic	local	systemic		systemic	local	systemic
Oral			VND	1,6				
				mg/kg/d				
Inhalation	174	174	VND	14,8	289	289	VND	77
	mg/m3	mg/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin			VND	108			VND	180
				mg/kg/d				mg/kg/d
			A	CETONE				
hreshold Limit Value								
Type	intry TM	/ / /Oh	CTEL /1	Emin	Domarka / O	haarvations		

	ACETONE ACETONE										
Threshold Limit V	Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15m	nin	Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
TLV	BGR	600		1400							
TLV	CZE	800	331,2	1500	621						
AGW	DEU	1200	500	2400 (C)	1000 (C)						
MAK	DEU	1200	500	2400	1000						
VLEP	FRA	1210	500	2420	1000						
TLV	GRC	1780		3560							
AK	HUN	1210									
GVI/KGVI	HRV	1210	500								
TLV	ROU	1210	500								
NPEL	SVK	1210	500								
WEL	GBR	1210	500	3620	1500						
OEL	EU	1210	500								
TLV-ACGIH			250		500						

				ETHYL	BENZENE	
Threshold Limit \	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	435		545		SKIN
TLV	CZE	200	45,4	500	113,5	SKIN
AGW	DEU	88	20	176	40	SKIN
MAK	DEU	88	20	176	40	SKIN
VLEP	FRA	88,4	20	442	100	SKIN
TLV	GRC	435	100	545	125	
AK	HUN	442		884		SKIN
GVI/KGVI	HRV	442	100	884	200	SKIN
TLV	ROU	442	100	884	200	SKIN
NPEL	SVK	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			



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SECTION 8. Exposure controls/personal protection .../>>

				N-BUTY	L ACETATE		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		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)		
VLEP	FRA	710	150	940	200		
TLV	GRC	710	150	950	200		
AK	HUN	241		723			
GVI/KGVI	HRV	241	50	723	150		
TLV	ROU	241	50	723	150		
NPEL	SVK	241	50	723	150		
WEL	GBR	724	150	966	200		
OEL	EU	241	50	723	150		
TLV-ACGIH			50		150		

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

The following should be considered when choosing work glove material (see standard EN 374): 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.

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

9.1. Information on basic physical and chemical properties

 Properties
 Value
 Information

 Appearance
 viscous liquid

 Colour
 white

 Odour
 characteristic of solvent

 Melting point / freezing point
 not available

Melting point / freezing point not available initial boiling point not available Flammability not available Lower explosive limit not available Upper explosive limit not available Flash point $23 \le T \le 60$ °C Auto-ignition temperature

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SECTION 9. Physical and chemical properties .../>>

not available
pH not available
Kinematic viscosity not available
Dynamic viscosity 90-100 KU

Solubility not available Partition coefficient: n-octanol/water not available

Vapour pressure not available

Density and/or relative density 1,35-1,39 kg/l

Relative vapour density not available Particle characteristics not applicable Method:ASTM D 562 Temperature: = 25 °C

Reason for missing data:substance/mixture is non-polar/aprotic (eg: an organic solvent

mixture)

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ACETONE

Decomposes under the effect of heat.

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.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form 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.

ACETONE

Avoid exposure to: sources of heat,naked flames.

N-BUTYL ACETATE

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

10.5. Incompatible materials

ACETONE

Incompatible with: acids,oxidising substances.

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.

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SECTION 10. Stability and reactivity .../>

ACFTONE

May develop: ketenes,irritant substances.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

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

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (IspesI). Is irritating for skin, conjunctiva and respiratory tract.

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.

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 - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: >2000 mg/kg

HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 > 5000 mg/kg Rat

 LC50 (Inhalation vapours):
 > 20 mg/l/4h Rat

Reaction mass of ethylbenzene and m-xylene and p-xylene

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation vapours): > 10 mg/l/4h Rat

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation vapours): > 10 mg/l/4h Rat

ETHYLBENZENE

 LD50 (Dermal):
 15354 mg/kg Rabbit

 LD50 (Oral):
 3500 mg/kg Rat

 LC50 (Inhalation vapours):
 17,2 mg/l/4h Rat



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N-BUTYL ACETATE LD50 (Dermal):

LC50 (Inhalation vapours):

> 5000 mg/kg Rabbit > 6400 mg/kg Rat 21,1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

LD50 (Oral):

Repeated exposure may cause skin dryness or cracking.

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

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class



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Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

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

Reaction mass of ethylbenzene and m-xylene and p-xylene

 LC50 - for Fish
 > 1 mg/l/96h

 EC50 - for Crustacea
 > 1 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 1 mg/l/72h

Chronic NOEC for Fish > 1 mg/l based on test data

Chronic NOEC for Crustacea > 0,1 mg/l

XYLENE (MIXTURE OF ISOMERS)

 LC50 - for Fish
 > 1 mg/l/96h

 EC50 - for Crustacea
 > 1 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 1 mg/l/72h

Chronic NOEC for Fish > 1 mg/l based on test data

Chronic NOEC for Crustacea > 0,1 mg/l

HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

 LC50 - for Fish
 > 100 mg/l/96h

 EC50 - for Crustacea
 > 100 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 > 100 mg/l/72h

Chronic NOEC for Fish > 0,1 mg/l based on modeled data Chronic NOEC for Crustacea > 0,1 mg/l based on modeled data

12.2. Persistence and degradability

Reaction mass of ethylbenzene and m-xylene and p-xylene

Rapidly degradable

XYLENE (MIXTURE OF ISOMERS)

Rapidly degradable

 $HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2\%\ AROMATICS$

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ACETONE

Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

12.3. Bioaccumulative potential



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Reaction mass of ethylbenzene and m-xylene and p-xylene Partition coefficient: n-octanol/water 3,12

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12

HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Partition coefficient: n-octanol/water 5

ETHYLBENZENE

Partition coefficient: n-octanol/water 3.6

ACETONE

Partition coefficient: n-octanol/water -0,23 BCF 3

N-BUTYL ACETATE

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

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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 or ID number

ADR / RID, IMDG, IATA: 1263

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

The product, if packaged in packages of less than 450 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

14.2. UN proper shipping name

ADR / RID: PAINT OF PAINT RELATED MATERIAL IMDG: PAINT OF PAINT RELATED MATERIAL IATA: PAINT OF PAINT RELATED MATERIAL

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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

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: 163, 367, 650

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 220 L Packaging instructions: 366
Passengers: Maximum quantity: 60 L Packaging instructions: 355

Special provision: A3, A72, A192

14.7. Maritime transport in bulk according to IMO instruments

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/EU: P5c

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

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

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 Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

ΕN



VITEX S.A.

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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.

VOC (Directive 2004/42/EC):

Binding primers.

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. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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

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

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



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SECTION 16. Other information .../>>

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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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
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- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
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- 21. Delegated Regulation (UE) 2021/849 (XVII 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.

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

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:

03/08/09/10/11/12/16.