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# 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 **DIRECT-1** Product name 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Solvent-based paint ideal for painting direct on metallic surfaces. 1.3. Details of the supplier of the safety data sheet VITEX S.A. Name **IMEROS TOPOS** Full address District and Country **ASPROPYRGOS** (ATTIKI) 19300 GREECE (0030) 2105589400 Tel. Fax (0030) 2105597859 e-mail address of the competent person responsible for the Safety Data Sheet vitexlab@vitex.gr VITEX S.A Supplier: 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 2	H225	Highly flammable liquid and vapour.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger



## SECTION 2. Hazards identification ... / >>

Hazard statements: H225 H373 H319 H315 H335 H336 H412 EUH211 EUH208	Highly flammable liquid and vapour. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains: PHTHALIC ANHYDRIDE May produce an allergic reaction.
Precautionary statements:	
P501	Dispose of contents / container in accordance with local and national regulations.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P101	If medical advice is needed, have product container or label at hand.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash thoroughly after handling.
P405	Store locked up.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
Contains:	XYLENE (MIXTURE OF ISOMERS)
VOC (Directive 2004/42/EC One - pack performance co	

One - pack performance coatings.	
VOC given in g/litre of product in a ready-to-use condition :	499,00
Limit value:	500,00

### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration  $\geq 0.1\%$ .

# **SECTION 3. Composition/information on ingredients**

### 3.2. Mixtures

Contains: Identification x = Conc. % Classification (EC) 1272/2008 (CLP) XYLENE (MIXTURE OF ISOMERS) CAS 1330-20-7  $10 \le x \le 20$ 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 EC 215-535-7 STA Dermal: 1100 mg/kg, LC50 Inhalation vapours: >10 mg/l/4h INDEX 601-022-00-9 REACH Reg. 01-2119488216-XXXX HYDROCARBONS, C9, AROMATICS CAS 64742-95-6 7 ≤ x < 15 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066 EC 918-668-5 INDEX REACH Reg. 01-2119455851-35-XXXX HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS CAS 64742-48-9 5≤x< 15 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066 919-857-5 EC INDEX REACH Reg. 01-2119463258-33-XXXX





ΕN

# SECTION 3. Composition/information on ingredients ..../>>

ETHYLBENZE	ENE		
CAS	100-41-4	5≤x< 7	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
INDEX	601-023-00-4		• • •
1-METHOXY-	2-PROPANOL		
CAS	107-98-2	1,5≤x< 3	Flam. Lig. 3 H226, STOT SE 3 H336
EC	203-539-1		• •
INDEX	603-064-00-3		
Calcium 3,5,5	-trimethylhexano	ate	
CAS	64216-15-5	1≤x< 2	Acute Tox. 4 H302, Eye Irrit. 2 H319
EC	264-731-9		STA Oral: 500 mg/kg
INDEX			
REACH Reg.	2119978299-15-	XXXX	
STYRENE			
CAS	100-42-5	0,6 ≤ x < 1,2	Flam. Liq. 3 H226, Repr. 2 H361d, Acute Tox. 4 H332, STOT RE 1 H372, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: D
EC	202-851-5		LC50 Inhalation vapours: 11,8 mg/l/4h
INDEX	601-026-00-0		• • •
PHTHALIC AN	NHYDRIDE		
CAS	85-44-9	$0 \le x \le 0,3$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317
EC INDEX	201-607-5		STA Oral: 500 mg/kg
REACH Reg.	01-2119457017-	41	

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

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

## 4.1. Description of first aid measures

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

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

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

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

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.

## **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. 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:

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



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

		2004/37/EK ''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

				XYLENE (MIXT	URE OF ISO	MERS)			
hreshold Limit	Value								
Туре	Country	/ TW	A/8h	STEL/15	min	Remarks / O	bservations		
		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	5 100	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	l 100	651	150				
ealth - Derived	no-effect	level - DN	NEL / DMEL						
	E	ffects on	consumers			Effects on wor	kers		
Route of expo	sure A	cute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	lo	ocal	systemic	local	systemic		systemic	local	systemic
Oral				VND	1,6				
					mg/kg/d				
Inhalation	1	74	174	VND	14,8	289	289	VND	77
	n	ng/m3	mg/m3		mg/m3	mg/m3	mg/m3		mg/m3
Skin				VND	108			VND	180
					mg/kg/d				mg/kg/d

# HYDROCARBONS, C9, AROMATICS

localsystemiclocalsystemicsystemiclocalsystemicOralVND11 mg/kg/dmg/kg/dreg/mg/m3VND32 mg/m3InhalationVND150 mg/m3VND32 mg/m3reg/mg/m3SkinVND11VND25	Threshold Limit Va	alue								
OEL       EU       100         Health - Derived no-effect level - DNEL / DMEL Effects on consumers       Effects on workers         Route of exposure       Acute       Acute       Chronic       Chronic       Acute local       Acute       Chronic       Chronic         Iocal       systemic       local       systemic       systemic       local       systemic       local       systemic         Oral       VND       11       mg/kg/d       vnD       32         Inhalation       VND       150       VND       mg/m3       mg/m3         Skin       VND       11       VND       25	Туре	Country	y TWA/8h		STEL/15	STEL/15min		servations		
Health - Derived no-effect level - DNEL / DMEL         Effects on consumers       Effects on workers         Route of exposure       Acute       Acute       Chronic       Chronic       Acute local       Acute       Chronic       Chronic         local       systemic       local       systemic       local       systemic       local       systemic       local       systemic         Oral       VND       11       mg/kg/d       vnD       32       mg/m3         Skin       VND       11       vnD       12       vnD       25			mg/m3	ppm	mg/m3	ppm				
Effects on consumers       Effects on workers         Route of exposure       Acute       Acute       Chronic       Chronic       Acute local       Acute       Chronic       Chronic         local       systemic       local       system	OEL	EU	100							
Route of exposure       Acute       Acute       Acute       Chronic       Chronic       Acute local       Acute       Chronic       Chronic         local       systemic       local       systemic       local       systemic       systemic       local       systemic         Oral       VND       11       mg/kg/d       reg/mg/m3       reg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg	Health - Derived no	o-effect lev	el - DNEL /	DMEL						
localsystemiclocalsystemicsystemiclocalsystemicOralVND11 mg/kg/dmg/kg/dresponseresponseresponseresponseInhalationVND150 mg/m3VND32 mg/m3responseresponseresponseSkinVND11VND25		Effe	cts on consu	mers			Effects on work	kers		
Oral         VND         11 mg/kg/d           Inhalation         VND         150 mg/m3         VND         32 mg/m3           Skin         VND         11         VND         25	Route of exposu	ire Acu	te Acu	ite	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
Inhalation         VND         150 mg/m3         VND         32 mg/m3           Skin         VND         11         VND         25		loca	l sys	temic	local	systemic		systemic	local	systemic
Inhalation         VND         150 mg/m3         VND         32 mg/m3           Skin         VND         11         VND         25	Oral				VND	11				
mg/m3         mg/m3           Skin         VND         11         VND         25						mg/kg/d				
Skin VND 11 VND 25	Inhalation				VND	150			VND	32
						mg/m3				mg/m3
malkald malkal	Skin				VND	11			VND	25
пукуч						mg/kg/d				mg/kg/d



ΕN

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

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

Threshold Limit	Value									
Туре	Country	y TWA	A/8h		STEL/15	min	Remarks / Observations			
		mg/ı	m3	ppm	mg/m3	ppm				
MAK	DEU	300	)	50	600	100				
OEL	EU	1200	0							
Health - Derived	I no-effect	level - DN	IEL / DI	<b>NEL</b>						
	E	Effects on	consum	ers			Effects on wor	kers		
Route of expo	osure A	Acute	Acute	•	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	le	ocal	syste	mic	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

				EINIL		
Threshold Limit	Value					
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			

ETHVI BENZENE

#### **1-METHOXY-2-PROPANOL** Threshold Limit Value TWA/8h STEL/15min Remarks / Observations Туре Country mg/m3 ppm mg/m3 ppm BGR TLV 375 100 568 150 SKIN TLV CZE 270 72,09 550 146,85 SKIN AGW DEU 370 100 740 200 DEU 370 100 740 200 MAK VLEP FRA 188 50 375 100 SKIN GRC 360 100 1080 300 TLV AK HUN 375 568 SKIN GVI/KGVI HRV 375 100 568 150 SKIN TLV ROU 375 100 568 150 NPEL SVK 375 100 568 150 SKIN WEL GBR 375 560 SKIN 100 150 OEL EU 375 100 568 150 SKIN TLV-ACGIH 368 184 50 100



ΕN

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

				ST	YRENE		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	85		215			
TLV	CZE	100	23,1	400	92,4		
AGW	DEU	86	20	172	40		
MAK	DEU	86	20	172	40		
VLEP	FRA	100	23,3	200	46,6		
TLV	GRC	425	100	1050	250		
AK	HUN	86		172			
GVI/KGVI	HRV	430	100	1080	250	SKIN	
TLV	ROU	50	12	150	35		
NPEL	SVK	90	20	200	50		
WEL	GBR	430	100	1080	250		
TLV-ACGIH		10		20			

#### PHTHALIC ANHYDRIDE

Threshold Lin	nit Value						
Туре	Country	TWA/8h		STEL/15r	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	GRC		1	6			

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.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

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 II 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, 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.

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



ΕN

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

# 9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		viscous liquid		
Colour		as showed in colo	r folder	
Odour		characteristic of se	olvent	
Melting point / freezing point		not available		
Initial boiling point	>	35 °C		
Flammability		not available		
Lower explosive limit		not available		
Upper explosive limit		not available		
Flash point		21 °C		
Auto-ignition temperature		not available		
pH		not available		
Kinematic viscosity		not available		
Dynamic viscosity		80-90 KU		Method:ASTM D 562
				Temperature: = 25 °C
Solubility		insoluble in water		
Partition coefficient: n-octanol/water		not available		
Vapour pressure		not available		Reason for missing data:substance/mixture is
				non-polar/aprotic (eg: an organic solvent
				mixture)
Density and/or relative density		1,12-1,16 I	kg/l	Method:ISO 2811
Relative vapour density		not available	-	
Particle characteristics		not applicable		

### 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.

### 1-METHOXY-2-PROPANOL

Dissolves various plastic materials.Stable in normal conditions of use and storage. Absorbs and disolves in water and in organic solvents. With air it may slowly form explosive peroxides.

#### STYRENE

Polymerises at temperatures above 65°C/149°F.Fire hazard.Possibility of explosion. Added with an inhibitor that requires a small amount of dissolved oxygen at temperatures < 25°C/77°F.

### 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.

#### ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air. 1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents, strong acids.

#### STYRENE

May react dangerously with: peroxides,strong acids.May polymerise on contact with: aluminium trichloride,azobisisobutyronitrile,dibenzoyl peroxide,sodium.Risk of explosion on contact with: butyllithium,chlorosulphuric acid,diterbutyl peroxide,oxidising substances,oxygen.



Revision nr.7 Dated 01/02/2023 Printed on 31/08/2023 Page n. 9/ 16 Replaced revision:6 (Dated 08/12/2020)

## SECTION 10. Stability and reactivity ... / >>

### 10.4. Conditions to avoid

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

#### 1-METHOXY-2-PROPANOL

Avoid exposure to: air.

STYRENE

Avoid contact with: oxidising substances,copper,strong acids.

## 10.5. Incompatible materials

1-METHOXY-2-PROPANOL

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

STYRENE

Incompatible materials: plastic materials. **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.

#### 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.

#### 1-METHOXY-2-PROPANOL

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

#### STYRENE

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.

#### 1-METHOXY-2-PROPANOL

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

#### STYRENE

The acute toxicity by inhalation at 1000 ppm affects the central nervous system with headache and dizziness, lack of coordination; irritation of the eye and respiratory tract mucous membranes occurs at 500 ppm. Chronic exposure causes depression of the central and peripheral nervous system with loss of memory, headache and drowsiness starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes to hearing and may cause changes in colour vision. No certain data is available on the reversibility of the visual impairment. Repeated skin exposure causes irritation. The substance degreases the skin, which can cause dryness and cracking.

#### Interactive effects



Revision nr.7 Dated 01/02/2023 Printed on 31/08/2023 Page n. 10 / 16 Replaced revision:6 (Dated 08/12/2020)

# SECTION 11. Toxicological information .../>>

## STYRENE

The metabolism of the substance is inhibited by ethanol. When styrene is photo-oxidised with ozone and nitrogen dioxide, as in the formation of smog, products highly irritating for the human eye may ensue.

### ACUTE TOXICITY

ACOTE TOXICITY	
ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 20 mg/l >2000 mg/kg >2000 mg/kg
XYLENE (MIXTURE OF ISOMERS) STA (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	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) > 2000 mg/kg Rat > 10 mg/l/4h Rat
HYDROCARBONS, C9, AROMATICS LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 2000 mg/kg Rabbit > 2000 mg/kg Rat > 20 mg/l/4h
HYDROCARBONS, C9-C11, n-ALKANES, ISOALK LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	ANES, CYCLICS, <2% AROMATICS > 5000 mg/kg Rabbit > 5000 mg/kg Rat > 20 mg/l/4h Rat
ETHYLBENZENE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	15354 mg/kg Rabbit 3500 mg/kg Rat 17,2 mg/l/4h Rat
1-METHOXY-2-PROPANOL LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	13000 mg/kg Rabbit 5300 mg/kg Rat 54,6 mg/l/4h Rat
Calcium 3,5,5-trimethylhexanoate LD50 (Dermal): STA (Oral):	2000 mg/kg 500 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)
STYRENE LD50 (Oral): LC50 (Inhalation vapours):	5000 mg/kg Rat 11,8 mg/l/4h Rat
SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye irritation	
RESPIRATORY OR SKIN SENSITISATION	
May produce an allergic reaction. Contains: PHTHALIC ANHYDRIDE	
Respiratory sensitization	
Information not available	
Skin sensitization	
Information not available	
GERM CELL MUTAGENICITY	

EPY 11.1.2 - SDS 1004.14



ΕN

## SECTION 11. Toxicological information .../>>

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).

#### STYRENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2002). Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 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 respiratory irritation May cause drowsiness or dizziness

Target organs

Information not available

Route of exposure

Information not available

**STOT - REPEATED EXPOSURE** 

May cause damage to organs

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**

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



Revision nr.7 Dated 01/02/2023 Printed on 31/08/2023 Page n. 12 / 16 Replaced revision:6 (Dated 08/12/2020)

# SECTION 12. Ecological information .../>>

# 12.1. Toxicity

XYLENE (MIXTURE OF ISOMERS) LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	<ul> <li>&gt; 1 mg/l/96h</li> <li>&gt; 1 mg/l/48h</li> <li>&gt; 1 mg/l/72h</li> <li>&gt; 1 mg/l based on test data</li> <li>&gt; 0,1 mg/l</li> </ul>
HYDROCARBONS, C9, AROMATICS LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	<ul> <li>&gt; 1 mg/l/96h</li> <li>&gt; 1 mg/l/48h</li> <li>&gt; 1 mg/l/72h</li> <li>&gt; 1 mg/l based on modeled data</li> <li>&gt; 1 mg/l based on modeled data</li> </ul>
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea	6, CYCLICS, <2% AROMATICS > 100 mg/l/96h > 100 mg/l/48h > 100 mg/l/72h > 0,1 mg/l based on modeled data > 0,1 mg/l based on modeled data
Calcium 3,5,5-trimethylhexanoate LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants	100 mg/l/96h 5 mg/l/48h 2,72 mg/l/72h
12.2. Persistence and degradability	
XYLENE (MIXTURE OF ISOMERS) Rapidly degradable	
HYDROCARBONS, C9, AROMATICS Rapidly degradable	
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES Rapidly degradable	6, CYCLICS, <2% AROMATICS
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l
STYRENE Solubility in water Rapidly degradable	320 mg/l
1-METHOXY-2-PROPANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
12.3. Bioaccumulative potential	
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: n-octanol/water	3,12
HYDROCARBONS, C9, AROMATICS Partition coefficient: n-octanol/water	3,7
HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES Partition coefficient: n-octanol/water	5, CYCLICS, <2% AROMATICS 5
ETHYLBENZENE Partition coefficient: n-octanol/water	3,6



Revision nr.7 Dated 01/02/2023 Printed on 31/08/2023 Page n. 13 / 16 Replaced revision:6 (Dated 08/12/2020)

# SECTION 12. Ecological information ... / >>

STYRENE Partition coefficient: n-octanol/water BCF	2,96 74
1-METHOXY-2-PROPANOL Partition coefficient: n-octanol/water	< 1
12.4. Mobility in soil	

STYRENE Partition coefficient: soil/water

#### 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  $\geq$  than 0,1%.

2,55

#### 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

### 14.2. UN proper shipping name

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

#### 14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



## 14.4. Packing group

ADR / RID, IMDG, IATA: II



Revision nr.7 Dated 01/02/2023 Printed on 31/08/2023 Page n. 14 / 16 Replaced revision:6 (Dated 08/12/2020) ΕN

# SECTION 14. Transport information ... / >>

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID:	
IMDG:	
IATA:	

Special provision: -EMS: -Cargo: Passengers: Special provision:

HIN - Kemler: 33

Limited Quantities: -

Limited Quantities: -Maximum quantity: -Maximum quantity: - Tunnel restriction code: -

Packaging instructions: -Packaging instructions: -

# 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

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  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

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.

<u>VOC (Directive 2004/42/EC) :</u> One - pack performance coatings.

#### 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
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1



ΕN

## SECTION 16. Other information ... / >>

A T 4	Assistive based actors of the
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
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).

## 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
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament





ΕN

## SECTION 16. Other information ...

- 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

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- 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 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 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: 02 / 03 / 04 / 05 / 07 / 08 / 09 / 10 / 11 / 12.