

## VPUR560010 - VERNICE A 5600 Op.10

## Safety Data Sheet

According to Annex II to REACH - Regulation 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

Code: VPUR560010  
 Product name: VERNICE A 5600 Op.10  
 UFI: 4X1H-W0YY-A00A-P8DM

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

Identified Uses	Industrial	Professional	Consumer
Paint product	✓	-	-

## 1.3. Details of the supplier of the safety data sheet

Name: ICRO COATINGS S.p.A.  
 Full address: Via Bedeschi, 25  
 District and Country: 24040 Chignolo D'Isola (BG)  
 Italia  
 Tel.: +39 035 999711  
 Fax: +39 035 999712

e-mail address of the competent person responsible for the Safety Data Sheet: gianluca.cerina@icro.it

Supplier: ICRO COATINGS S.p.A. con Socio Unico - Via Bedeschi 25 - 24040 Chignolo d'Isola (BG) - Italy

## 1.4. Emergency telephone number

For urgent inquiries refer to: There is no known operational emergency phone number service in UK

## 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.
Skin irritation, category 2	H315	Causes skin irritation.

## 2.2. Label elements

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

## Hazard pictograms:



Signal words: Danger

## Hazard statements:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.

## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 2. Hazards identification ... / &gt;&gt;

## Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: use powder to extinguish.
P233	Keep container tightly closed.

Product not intended for uses provided for by Directive 2004/42/EC.

## 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	$10 \leq x < 30$
EC	215-535-7	
INDEX	601-022-00-9	
REACH Reg.	01-2119488216-XXXX	
N-BUTYL ACETATE		
CAS	123-86-4	$10 \leq x < 20$
EC	204-658-1	
INDEX	607-025-00-1	
REACH Reg.	01-2119485493-XXXX	
AMORPHOUS SILICATE HYDRATE		
CAS	7631-86-9	$5 \leq x < 9$
EC	231-545-4	
INDEX		
REACH Reg.	01-2119379499-XXXX	
2-METHOXY-1-METHYLETHYL ACETATE		
CAS	108-65-6	$1 \leq x < 5$
EC	203-603-9	
INDEX	607-195-00-7	
REACH Reg.	01-2119475791-29-XXXX	
4-HYDROXY-4-METHYLPENTAN-2-ONE		
CAS	123-42-2	$1 \leq x < 5$
EC	204-626-7	
INDEX	603-016-00-1	
REACH Reg.	01-2119473975-21-XXXX	
ETHYLBENZENE		
CAS	100-41-4	$0,5 \leq x < 1$
EC	202-849-4	
INDEX	601-023-00-4	
REACH Reg.	01-2119489370-XXXX	
POLYETHYLENE		
CAS		$0 \leq x < 0,5$
EC	919-748-2	
INDEX		
ISOBUTYL ALCOHOL		
CAS	78-83-1	$0 \leq x < 0,5$
EC	201-148-0	
INDEX	603-108-00-1	
REACH Reg.	01-2119484609-XX	

## VPUR560010 - VERNICE A 5600 Op.10

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

#### ETHYL ACETATE

CAS 141-78-6 0 ≤ x < 0,5 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066  
EC 205-500-4  
INDEX 607-022-00-5  
REACH Reg. 01-2119475103-XXXX

#### Decamethylpentasiloxane

CAS 541-02-6 0 ≤ x < 0,5 Substance PBT  
EC 208-764-9 Substance vPvB  
INDEX

REACH Reg. 01-2119511367-43-XXXX

#### OCTAMETHYLCYCLOTETRASILOXANE

CAS 556-67-2 0 ≤ x < 0,5 Repr. 2 H361f, Aquatic Chronic 1 H410 M=10  
EC 209-136-7  
INDEX

REACH Reg. 01-2119529238-XXXX

#### 1- METHYLIMIDAZOLE

CAS 616-47-7 0 ≤ x < 0,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318  
EC 210-484-7 LD50 Oral: 1144 mg/kg, STA Dermal: 1100 mg/kg  
INDEX

#### BUTANOL

CAS 71-36-3 0 ≤ x < 0,5 Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,  
STOT SE 3 H335, STOT SE 3 H336  
EC 200-751-6 LD50 Oral: 790 mg/kg  
INDEX 603-004-00-6

REACH Reg. 01-2119484630-XX

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

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

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

**SKIN:** Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

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

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

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

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

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

Information not available

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

##### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

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

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

## VPUR560010 - VERNICE A 5600 Op.10

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

## SECTION 6. Accidental release measures

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

Block the leakage if there is no hazard.

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

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

## 6.2. Environmental precautions

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

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

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

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

## 6.4. Reference to other sections

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

## SECTION 7. Handling and storage

## 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

## 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a 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.

Storage class TRGS 510 (Germany): 3

## 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
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnõuded [RT I, 17.10.2019, 1 - jõust. 17.01.2020]

## VPUR560010 - VERNICE A 5600 Op.10

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

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 opasnimkemičkimlijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
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
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

### Decamethylpentasiloxane

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0012	mg/l
Normal value in marine water	0,00012	mg/l
Normal value for fresh water sediment	11	mg/kg/d
Normal value for marine water sediment	1,1	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	16	mg/kg
Normal value for the terrestrial compartment	2,54	mg/kg/d

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				5				
				mg/kg bw/d				
Inhalation			4,3	17,3			24,2	97,3
			mg/m3	mg/m3			mg/m3	mg/kg

VPUR560010 - VERNICE A 5600 Op.10

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

OCTAMETHYLCYCLOTETRAILOXANE

Predicted no-effect concentration - PNEC								
Normal value in fresh water					0,0015	mg/l		
Normal value in marine water					0,00015	mg/l		
Normal value for fresh water sediment					3	mg/kg		
Normal value for marine water sediment					0,3	mg/kg		
Normal value of STP microorganisms					10	mg/l		
Normal value for the food chain (secondary poisoning)					41	mg/kg		
Normal value for the terrestrial compartment					0,54	mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,7 mg/kg bw/d				
Inhalation			13 mg/m3	13 mg/m3			73 mg/m3	73 mg/m3

1- METHYLIMIDAZOLE

Predicted no-effect concentration - PNEC								
Normal value in fresh water					0,1	mg/l		
Normal value in marine water					0,01	mg/l		
Normal value for fresh water sediment					4,43	mg/kg		
Normal value for marine water sediment					0,443	mg/kg		
Normal value for water, intermittent release					1	mg/l		
Normal value of STP microorganisms					589,6	mg/l		
Normal value for the terrestrial compartment					0,825	mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								7,9 mg/m3
Skin								2,25 mg/kg bw/d

POLYETHYLENE

Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min	Remarks / Observations	
		mg/m3	mg/m3	ppm	
TLV-ACGIH		10			

## VPUR560010 - VERNICE A 5600 Op.10

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

#### XYLENE (MIXTURE OF ISOMERS)

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	221	50	442	100	SKIN
TLV	CZE	200	45,4	400	90,8	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
TLV	EST	200	50	450	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
TLV	GRC	435	100	650	150	
AK	HUN	221		442		SKIN
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
RV	LVA	221	50	442	100	SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSch	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
NPEL	SVK	221	50	442	100	SKIN
MV	SVN	221	50	442	100	SKIN
ESD	TUR	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,327	mg/l
Normal value in marine water	0,327	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value for water, intermittent release	0,327	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,6 mg/kg/bw				
Inhalation	174 mg/m3	174 mg/m3		14,8 mg/m3	289 mg/m3	289 mg/m3	77 mg/m3	77 mg/m3
Skin				108 mg/kg/bw	174 mg/m3	180 mg/kg		

#### AMORPHOUS SILICATE HYDRATE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	4				INHAL
MAK	DEU	4				INHAL
TLV	EST	2				
RV	LVA	1				
MV	SVN	4				INHAL

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								4 mg/m3

## VPUR560010 - VERNICE A 5600 Op.10

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

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

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	275	50	550	100	SKIN
TLV	CZE	270	49,14	550	100,1	SKIN
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
VLA	ESP	275	50	550	100	SKIN
TLV	EST	275	50	550	100	SKIN
VLEP	FRA	275	50	550	100	SKIN
TLV	GRC	275	50	550	100	
AK	HUN	275		550		
GVI/KGVI	HRV	275	50	550	100	SKIN
VLEP	ITA	275	50	550	100	SKIN
RV	LVA	275	50	550	100	SKIN
VLE	PRT	275	50	550	100	SKIN
NDS/NDSch	POL	260		520		SKIN
TLV	ROU	275	50	550	100	SKIN
NPEL	SVK	275	50	550	100	SKIN
MV	SVN	275	50	550	100	SKIN
ESD	TUR	275	50	550	100	SKIN
WEL	GBR	274	50	548	100	SKIN
OEL	EU	275	50	550	100	SKIN

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,635	mg/l
Normal value in marine water	0,0635	mg/l
Normal value for fresh water sediment	3,29	mg/kg
Normal value for marine water sediment	0,329	mg/kg
Normal value for water, intermittent release	6,35	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,29	mg/kg

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,67 mg/kg				
Inhalation				33 mg/m3				275 mg/m3
Skin				54,8 mg/kg				153,5 mg/kg



## VPUR560010 - VERNICE A 5600 Op.10

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

#### ISOBUTYL ALCOHOL

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	300	97,5	600	195	
AGW	DEU	310	100	310 (C)	100 (C)	
MAK	DEU	310	100	310	100	
VLA	ESP	154	50			
TLV	EST	150	50			
VLEP	FRA	150	50			
TLV	GRC	300	100	300	100	
GVI/KGVI	HRV	154	50	231	75	SKIN
RV	LVA	10				
NDS/NDSch	POL	100		200		SKIN
TLV	ROU	100	33	200	66	
NPEL	SVK	310	100			
MV	SVN	310	100	310	100	
WEL	GBR	154	50	231	75	
TLV-ACGIH		152	50			

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,4	mg/l
Normal value in marine water	0,04	mg/l
Normal value for fresh water sediment	1,52	mg/kg
Normal value for marine water sediment	0,152	mg/kg
Normal value for water, intermittent release	11	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0699	mg/kg

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg				
Inhalation				25 mg/kg			310 mg/m3	

## VPUR560010 - VERNICE A 5600 Op.10

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

#### ETHYLBENZENE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		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
VLA	ESP	441	100	884	200	SKIN
TLV	EST	442	100	884	200	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
VLEP	ITA	442	100	884	200	SKIN
RV	LVA	442	100	884	200	SKIN
VLE	PRT	442	100	884	200	SKIN
NDS/NDSch	POL	200		400		SKIN
TLV	ROU	442	100	884	200	SKIN
NPEL	SVK	442	100	884	200	SKIN
MV	SVN	442	100	884	200	SKIN
ESD	TUR	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	13,7	mg/kg
Normal value for marine water sediment	1,37	mg/kg
Normal value for the terrestrial compartment	2,68	mg/kg

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,6 mg/kg bw/d				
Inhalation				15 mg/m3		293 mg/m3		77 mg/m3
Skin								180 mg/kg bw/d

VPUR560010 - VERNICE A 5600 Op.10

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

BUTANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	100		150		
TLV	CZE	300	97,5	600	195	
AGW	DEU	310	100	310	100	
MAK	DEU	310	100	310	100	
VLA	ESP	61	20	154	50	
TLV	EST	45	15	90 (C)	30 (C)	SKIN
VLEP	FRA			150	50	
TLV	GRC	300	100	300	100	
AK	HUN	45		90		SKIN
GVI/KGVI	HRV			154	50	SKIN
RV	LVA	10				
NDS/NDSch	POL	50		150		SKIN
TLV	ROU	100	33	200	66	
NPEL	SVK	310	100			
MV	SVN	310	100	310	100	
WEL	GBR			154	50	SKIN
TLV-ACGIH		61	20			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,082	mg/l
Normal value in marine water	0,0082	mg/l
Normal value for fresh water sediment	0,178	mg/kg
Normal value for marine water sediment	0,0178	mg/kg
Normal value for water, intermittent release	2,25	mg/l
Normal value of STP microorganisms	2476	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3125 mg/kg				
Inhalation			55 mg/m3				310 mg/m3	

## VPUR560010 - VERNICE A 5600 Op.10

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

#### 4-HYDROXY-4-METHYLPENTAN-2-ONE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
TLV	CZE	200	41,4	300	62,1	
AGW	DEU	96	20	192	40	SKIN
MAK	DEU	96	20	192	40	SKIN
VLA	ESP	241	50			
TLV	EST	120	25	240	50	
VLEP	FRA	240	50			
TLV	GRC	240	50	360	75	
GVI/KGVI	HRV	241	50	362	75	
NDS/NDSCh	POL	240				
TLV	ROU	150	32	250	53	
MV	SVN	96	20	192	40	SKIN
WEL	GBR	241	50	362	75	
TLV-ACGIH		238	50			

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	2	mg/l
Normal value in marine water	0,2	mg/l
Normal value for fresh water sediment	9,06	mg/kg
Normal value for marine water sediment	0,91	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value for the terrestrial compartment	0,63	mg/kg

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

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local
Oral				3,4 mg/kg			
Inhalation				11,8 mg/m <sup>3</sup>			66,4 mg/m <sup>3</sup>
Skin				11,8 mg/m <sup>3</sup>			9,4 mg/kg

VPUR560010 - VERNICE A 5600 Op.10

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

ETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	734	200	1468	400	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
VLA	ESP	734	200	1468	400	
TLV	EST	500	150	1100	300	
VLEP	FRA	734	200	1468	400	
TLV	GRC	734	200	1468	400	
AK	HUN	734		1468		
GVI/KGVI	HRV	734	200	1468	400	
VLEP	ITA	734	200	1468	400	
RV	LVA	200	54	1468	400	
VLE	PRT	734	200	1468	400	
NDS/NDSch	POL	734		1468		
TLV	ROU	734	200	1468	400	
NPEL	SVK	734	200	1468	400	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,26	mg/l
Normal value in marine water	0,026	mg/l
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	0,125	mg/kg
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the terrestrial compartment	0,24	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3		1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin				37 mg/kg			37 mg/kg	63 mg/kg

## VPUR560010 - VERNICE A 5600 Op.10

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

#### N-BUTYL ACETATE

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
TLV	BGR	710		950		
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
VLA	ESP	241	50	724	150	
TLV	EST	500	100	700	150	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
AK	HUN	241		723		
GVI/KGVI	HRV	241	50	723	150	
VLEP	ITA	241	50	723	150	
RV	LVA	200				
VLE	PRT	241	50	723	150	
NDS/NDSch	POL	240		720		
TLV	ROU	241	50	723	150	
NPEL	SVK	241	50	723	150	
MV	SVN	300	62	600	124	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	0,981	mg/kg
Normal value for marine water sediment	0,0981	mg/kg
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,0903	mg/kg

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2 mg/kg/d				
Inhalation	859,7 mg/m <sup>3</sup>	859,7 mg/m <sup>3</sup>	102,34 mg/m <sup>3</sup>	102,34 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>	960 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>	480 mg/m <sup>3</sup>
Skin				6 mg/kg/d		11 mg/kg/d		11 mg/kg/d

##### Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

#### 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 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, 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.

## VPUR560010 - VERNICE A 5600 Op.10

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

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 of solvent	
Odour threshold	Not applicable	
Melting point / freezing point	Not applicable	
Initial boiling point	126 °C	
Boiling range	126 - 140C	
Flammability	not applicable	
Lower explosive limit	1 % (v/v)	Temperature: 20 °C
Upper explosive limit	7,6 % (v/v)	Temperature: 20 °C
Flash point	15 °C	
Auto-ignition temperature	404 °C	
Decomposition temperature	Not applicable	
pH	Not applicable	
Kinematic viscosity	Not applicable	
Solubility	soluble in organic solvents	
Partition coefficient: n-octanol/water	Not applicable	
Vapour pressure	Not determined	
Density and/or relative density	0,99	
Relative vapour density	3,66 - 4	
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

Evaporation rate	Not determined	
VOC (Directive 2010/75/EU)	47,54 % - 470,63	g/litre
Explosive properties	not applicable	
Oxidising properties	not applicable	

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

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

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

Stable in normal conditions of use and storage.

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

##### BUTANOL

Attacks various types of plastic materials.

##### 4-HYDROXY-4-METHYLPENTAN-2-ONE

Decomposes at temperatures above 90°C/194°F.

##### ETHYL ACETATE

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

##### N-BUTYL ACETATE

## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 10. Stability and reactivity ... / &gt;&gt;

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.

## XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

## 2-METHOXY-1-METHYLETHYL ACETATE

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

## ETHYLBENZENE

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

## BUTANOL

Reacts violently developing heat on contact with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with: air.

## 4-HYDROXY-4-METHYLPENTAN-2-ONE

Risk of explosion on contact with: air, sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

## 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.

## BUTANOL

Avoid exposure to: sources of heat, naked flames.

## 4-HYDROXY-4-METHYLPENTAN-2-ONE

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

## 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

## 2-METHOXY-1-METHYLETHYL ACETATE

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

## 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.

## ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

## 2-METHOXY-1-METHYLETHYL ACETATE

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

Information on likely routes of exposure



## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 11. Toxicological information ... / &gt;&gt;

## XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

## 2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

## ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

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

## 4-HYDROXY-4-METHYLPENTAN-2-ONE

WORKERS: inhalation; contact with the skin.

## N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

## XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

## 2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies.

Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

## 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 (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

## 4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm.

No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

## 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

## XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers.

Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

## 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

## Decamethylpentasiloxane

LD50 (Dermal): > 2000 mg/kg Rat

LD50 (Oral): > 5000 mg/kg Rat

LC50 (Inhalation vapours): 8,67 mg/l/4h Rat

## VPUR560010 - VERNICE A 5600 Op.10

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

#### OCTAMETHYLCYCLOTETRASILOXANE

LD50 (Dermal): > 2375 mg/kg Rat  
 LD50 (Oral): > 4800 mg/kg Rat  
 LC50 (Inhalation vapours): 36 mg/l/4h Rat

#### 1- METHYLIMIDAZOLE

LD50 (Dermal): 400 mg/kg  
 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): 1144 mg/kg  
 LC50 (Inhalation vapours): > 1,2 mg/l/4h

#### XYLENE (MIXTURE OF ISOMERS)

LD50 (Dermal): 4350 mg/kg Rabbit  
 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): 3523 mg/kg Rat  
 LC50 (Inhalation vapours): 26 mg/l/4h Rat  
 STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP  
 (figure used for calculation of the acute toxicity estimate of the mixture)

#### AMORPHOUS SILICATE HYDRATE

LD50 (Dermal): > 2000 mg/kg Rat  
 LD50 (Oral): > 2000 mg/kg Rat  
 LC50 (Inhalation mists/powders): > 2,2 mg/l/1h Rat

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

LD50 (Dermal): > 5000 mg/kg Rat  
 LD50 (Oral): 8530 mg/kg Rat

#### ISOBUTYL ALCOHOL

LD50 (Dermal): 2460 mg/kg Rabbit  
 LD50 (Oral): 2460 mg/kg Rat  
 LC50 (Inhalation vapours): 19,2 mg/l/4h Rat

#### ETHYLBENZENE

LD50 (Dermal): 15354 mg/kg Rabbit  
 LD50 (Oral): 3500 mg/kg Rat

#### BUTANOL

LD50 (Dermal): 3400 mg/kg Rabbit  
 LD50 (Oral): 790 mg/kg Rat  
 LC50 (Inhalation vapours): 8000 ppm/4h Rat

#### 4-HYDROXY-4-METHYLPENTAN-2-ONE

LD50 (Oral): 4000 mg/kg Rat

#### N-BUTYL ACETATE

LD50 (Dermal): 17600 mg/kg Rabbit  
 LD50 (Oral): 10768 mg/kg Rat  
 LC50 (Inhalation vapours): 21,1 mg/l/4h Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### 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

## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 11. Toxicological information ... / &gt;&gt;

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

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).  
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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.

VPUR560010 - VERNICE A 5600 Op.10

**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

OCTAMETHYLCYCLOTETRASILOXANE Chronic NOEC for Fish	0,0044 mg/l 3,1 Months
1- METHYLIMIDAZOLE EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants	202,5 mg/l/72h 119,4 mg/l
2-METHOXY-1-METHYLETHYL ACETATE LC50 - for Fish EC50 - for Crustacea	> 100 mg/l/96h > 400 mg/l/48h
ETHYLBENZENE LC50 - for Fish EC50 - for Crustacea	48,5 mg/l/96h pimephales 75 mg/l/48h daphnia magna
N-BUTYL ACETATE LC50 - for Fish EC50 - for Algae / Aquatic Plants	18 mg/l/96h pimephales promelas 675 mg/l/72h

12.2. Persistence and degradability

Decamethylpentasiloxane Solubility in water Entirely degradable	0,017 mg/l @ 23°C
OCTAMETHYLCYCLOTETRASILOXANE Solubility in water	0,056 mg/l @ 23 °C
1- METHYLIMIDAZOLE Solubility in water	1000 g/l @ 20 °C
XYLENE (MIXTURE OF ISOMERS) Solubility in water Rapidly degradable	100 - 1000 mg/l
AMORPHOUS SILICATE HYDRATE Solubility in water Degradability: information not available	0,1 - 100 mg/l
2-METHOXY-1-METHYLETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
ISOBUTYL ALCOHOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
ETHYLBENZENE Solubility in water Rapidly degradable	1000 - 10000 mg/l
BUTANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
4-HYDROXY-4-METHYLPENTAN-2-ONE Solubility in water Rapidly degradable	1000 - 10000 mg/l

## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 12. Ecological information ... / &gt;&gt;

ETHYL ACETATE  
Solubility in water > 10000 mg/l  
Rapidly degradable

N-BUTYL ACETATE  
Solubility in water 1000 - 10000 mg/l

## 12.3. Bioaccumulative potential

Decamethylpentasiloxane  
Partition coefficient: n-octanol/water 8,07 @ 24,6 °C  
BCF 16200 l/kg ww

OCTAMETHYLCYCLOTETRASIOXANE  
Partition coefficient: n-octanol/water 6,49 @ 25,1 °C  
BCF 14900 l/kg

1- METHYLIMIDAZOLE  
Partition coefficient: n-octanol/water -0,19 @ 25 °C

XYLENE (MIXTURE OF ISOMERS)  
Partition coefficient: n-octanol/water 3,12  
BCF 25,9

AMORPHOUS SILICATE HYDRATE  
Partition coefficient: n-octanol/water 0,53

2-METHOXY-1-METHYLETHYL ACETATE  
Partition coefficient: n-octanol/water 1,2

ISOBUTYL ALCOHOL  
Partition coefficient: n-octanol/water 1

ETHYLBENZENE  
Partition coefficient: n-octanol/water 3,6

BUTANOL  
Partition coefficient: n-octanol/water 1  
BCF 3,16

4-HYDROXY-4-METHYLPENTAN-2-ONE  
Partition coefficient: n-octanol/water -0,09

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

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

## 12.4. Mobility in soil

OCTAMETHYLCYCLOTETRASIOXANE  
Partition coefficient: soil/water 4,22 @ 20 °C

XYLENE (MIXTURE OF ISOMERS)  
Partition coefficient: soil/water 2,73

ISOBUTYL ALCOHOL  
Partition coefficient: soil/water 0,31

BUTANOL  
Partition coefficient: soil/water 0,388

N-BUTYL ACETATE  
Partition coefficient: soil/water < 3

VPUR560010 - VERNICE A 5600 Op.10

SECTION 12. Ecological information ... / >>

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%.

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  
 IMDG: PAINT  
 IATA: PAINT

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

14.5. Environmental hazards

ADR / RID: NO  
 IMDG: NO  
 IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33 Special provision: 163, 367, 640D, 650	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-E	Limited Quantities: 5 L	
IATA:	Cargo: Pass.: Special provision:	Maximum quantity: 60 L Maximum quantity: 5 L A3, A72, A192	Packaging instructions: 364 Packaging instructions: 353

## VPUR560010 - VERNICE A 5600 Op.10

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

#### 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

<u>Product</u>		
Point	3 - 40	
<u>Contained substance</u>		
Point	75	
Point	70	OCTAMETHYLCYCLOTETRASILOXANE REACH Reg.: 01-2119529238-XXXX
Point	70	Decamethylpentasiloxane REACH Reg.: 01-2119511367-43-XXXX

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

Not applicable

Substances in Candidate List (Art. 59 REACH)

OCTAMETHYLCYCLOTETRASILOXANE

REACH Reg.: 01-2119529238-XXXX

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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

#### 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
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H225	Highly flammable liquid and vapour.
H361f	Suspected of damaging fertility.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.

## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 16. Other information ... / &gt;&gt;

H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.

## 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
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) 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)



## VPUR560010 - VERNICE A 5600 Op.10

## SECTION 16. Other information ... / &gt;&gt;

- 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:

01 / 03 / 04 / 05 / 07 / 11.