

PROFESSIONAL RACING NAVY

Safety Data Sheet

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

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

1.1. Product identifier

Product name **UWS HARD ANTIFOULING PROFESSIONAL RACING NAVY**
Chemical name and synonym **PEINTURE ANTISALISSURE CONTENANT RESINE ACRYLIQUE ET COLOPHANE**

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

Intended use **PEINTURE MARINE**

Identified Uses	Industrial	Professional	Consumer
Paint product for boating	✓	✓	✓
Uses Advised Against			
Consumer - do-it-yourself: spray use			

1.3. Details of the supplier of the safety data sheet

Name **UNDERWATER SYSTEMS SAS**
Full address **613, Route des Princes d'Orange**
District and Country **84190 Gigondas**
France
Tel. +33 (0)4 90 65 01 72
infos@underwatersystems.fr

1.4. Emergency telephone number

For urgent inquiries refer to
INRS/ORFILA : Tél : 01 45 42 59 59
<http://www.centres-antipoison.net>

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic 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.

PROFESSIONAL RACING NAVY

Hazard pictograms:



Signal words: Danger

Hazard statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary
statements:

P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
Contains:	DICOPPER OXIDE COLOPHONY ZINEB Hydrocarbons, C9, aromatics (CAS number: 64742-95-6)

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

2.3. Other hazardsOn 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%.

PROFESSIONAL RACING NAVY

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
DICOPPER OXIDE		
INDEX 029-002-00-X	$22 \leq x < 25$	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=10
EC 215-270-7		LD50 Oral: 500 mg/kg, LC50 Inhalation mists/powders: 3,34 mg/l/4h
CAS 1317-39-1		
REACH Reg. 01-2119513794-36-XXXX		
Hydrocarbons, C9, aromatics (CAS number: 64742-95-6)		
INDEX -	$16 \leq x < 19$	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		
CAS 128601-23-0		
REACH Reg. 01-2119455851-35-XXXX		
COLOPHONY		
INDEX 650-015-00-7	$16 \leq x < 19$	Skin Sens. 1 H317
EC 232-475-7		
CAS 8050-09-7		
REACH Reg. 01-2119480418-32-XXXX		
ZINC OXIDE		
INDEX 030-013-00-7	$6 \leq x < 7$	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 215-222-5		
CAS 1314-13-2		
REACH Reg. 01-2119463881-32-XXXX		
ZINEB		
INDEX 006-078-00-2	$2,5 \leq x < 3$	Flam. Sol. 2 H228, Repr. 2 H361d, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 235-180-1		
CAS 12122-67-7		
2-METHOXY-1-METHYLETHYL ACETATE		
INDEX 607-195-00-7	$1 \leq x < 2$	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9		
CAS 108-65-6		
REACH Reg. 01-2119475791-29-XXXX		
TITANIUM DIOXIDE		
INDEX -	$0,3 \leq x < 0,4$	EUH210, EUH212
EC 236-675-5		
CAS 13463-67-7		
REACH Reg. 01-2119489379-17-XXXX		
Pyrithione zinc		
INDEX 613-333-00-7	$0,25 \leq x < 0,3$	Repr. 1B H360D, Acute Tox. 2 H330, Acute Tox. 3 H301, STOT RE 1 H372, Eye Dam. 1 H318, Aquatic Chronic 1 H410 M=10
EC 236-671-3		LD50 Oral: 221 mg/kg, LC50 Inhalation mists/powders: 0,14 mg/l/4h

PROFESSIONAL RACING NAVY

CAS 13463-41-7

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxiraneINDEX 603-073-00-2 $0,1 \leq x < 0,2$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 216-823-5

Skin Irrit. 2 H315: $\geq 5\%$, Eye Irrit. 2 H319: $\geq 5\%$

CAS 1675-54-3

REACH Reg. 01-2119456619-26-0006

XYLENEINDEX 601-022-00-9 $0,0149 \leq x < 0,0208$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

EC 215-535-7

CAS 1330-20-7

REACH Reg. 01-2119488216-32-XXXX

QUARTZINDEX - $0,0149 \leq x < 0,0208$ STOT RE 1 H372

EC 238-878-4

CAS 14808-60-7

ISOBUTYL ACETATEINDEX 607-026-00-7 $0,0099 \leq x < 0,0158$ Flam. Liq. 2 H225, STOT SE 3 H336, EUH066, Classification note according to Annex VI to the CLP Regulation: C

EC 203-745-1

CAS 110-19-0

REACH Reg. 01-2119488971-22-xxxx

PHOSPHORIC ACIDINDEX 015-011-00-6 $0 \leq x < 0,0058$ Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
Met. Corr. 1 H290: $\geq 20\%$, Skin Corr. 1B H314: $\geq 25\%$, Skin Irrit. 2 H315: $\geq 10\%$, Eye Dam. 1 H318: $\geq 25\%$, Eye Irrit. 2 H319: $\geq 10\%$

EC 231-633-2

CAS 7664-38-2

REACH Reg. 01-2119485924-24

CUMENEINDEX 601-024-00-X $0 \leq x < 0,0058$ Flam. Liq. 3 H226, Carc. 1B H350, Asp. Tox. 1 H304, STOT SE 3 H335, Aquatic Chronic 2 H411

EC 202-704-5

CAS 98-82-8

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

XYLENE (MIXTURE OF ISOMERS)

*UVCB substance, for which the following product identifiers are also valid:

Mass Reaction of Ethylbenzene and Xylene; EC No. : 905-588-0; REACH No.: 01-2119486136-34/ REACH No.: 01-2119488216-32;

Reaction mass of ethylbenzene and M-xylene and P-xylene; EC No.: 905-562-9; REACH Nr.: 01-2119488216-32/ REACH Nr.: 01-2119555267-33.

Actives substances PT21Dicopper oxide 23,00 % (368,0 g/L)
Zineb 2,50 % (40,0 g/L)
Pyrrithione zinc 0,25 % (4,0 g/L)

PROFESSIONAL RACING NAVY**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. 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.

Pyrithione zinc

Poisoning symptoms can appear even after several hours.

In case of malaise consult a doctor.

If inhaled, take the person to fresh air and call a doctor immediately.

In case of skin contact, immediately remove contaminated clothing and shoes and wash it off with plenty of soap and water.

In case of contact with eyes, rinse with plenty of water also under the eyelids for at least 15 minutes and call a doctor / poison control center.

If ingested, rinse the mouth with plenty of water (if the person is conscious). Do not induce vomiting. If vomiting occurs, keep head down to prevent vomit from going into the lungs. contact a physician / poison control center immediately.

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

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

Pyrithione zinc

In case of contact, it can cause permanent eye damage.

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

Pyrithione zinc

Treat symptomatically.

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.

PROFESSIONAL RACING NAVY

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.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheltered from moisture because it hydrolyses easily.

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:

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	Limites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
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

PROFESSIONAL RACING NAVY

POL	Polska	exposição durante o trabalho a agentes cancerígenos ou mutagénicos 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 Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 EH40/2005 Workplace exposure limits (Fourth Edition 2020) 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. ACGIH 2022
ROU	România	
GBR	United Kingdom	
EU	OEL EU	
	TLV-ACGIH	

DICOPPER OXIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	DEU	0,01		0,02			
VLA	ESP	0,01				RESP	Como Cu
NDS/NDSch	POL	0,2					Na Cu
WEL	GBR	1		2			As Cu
Predicted no-effect concentration - PNEC							
Normal value in fresh water				7,8		µl/g	
Normal value in marine water				5,2		µl/g	
Normal value for fresh water sediment				87		mg/kg	
Normal value for marine water sediment				676		mg/kg	
Normal value of STP microorganisms				0,23		mg/l	
Normal value for the terrestrial compartment				65		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		82 µg/kg bw/day		41 µg/kg bw/day				
Inhalation	NPI	NPI	NPI	NPI	NPI	NPI	1 mg/m3	1 mg/m3
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	137 mg/kg bw/d

CALCIUM CARBONATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	10					
NDS/NDSch	POL	10				INHAL	
Predicted no-effect concentration - PNEC							
Normal value of STP microorganisms				100		mg/l	

Hydrocarbons, C9, aromatics (CAS number: 64742-95-6)

Predicted no-effect concentration - PNEC

Normal value in fresh water				NPI			
Normal value in marine water				NPI			
Normal value for fresh water sediment				NPI			
Normal value for marine water sediment				NPI			
Normal value for water, intermittent release				NPI			
Normal value of STP microorganisms				NPI			

PROFESSIONAL RACING NAVY

Normal value for the food chain (secondary poisoning) NPI

Normal value for the terrestrial compartment NPI

Normal value for the atmosphere NPI

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				11 mg/kg bw/d				
Inhalation				32 mg/m3				150 mg/m3
Skin				11 mg/kg bw/d				25 mg/kg bw/d

COLOPHONY

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	ROU	0,1				
WEL	GBR	0,05		0,15		
TLV-ACGIH		0,001				

Predicted no-effect concentration - PNEC

Normal value in fresh water	0	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	0,02	mg/kg
Normal value for marine water sediment	0	mg/kg
Normal value of STP microorganisms	1000	mg/l
Normal value for the food chain (secondary poisoning)	0	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				15 mg/kg				
Inhalation				52 mg/m3				176 mg/m3
Skin				15 mg/kg				25 mg/kg

ZINC OXIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	2		4		INHAL
MAK	DEU	0,1		0,4		RESP
VLA	ESP	2		10		
VLEP	FRA	5				
NDS/NDSch	POL	5		10		INHAL Na Zn
TLV	ROU	5		10		Fumuri
TLV-ACGIH		2		10		RESP

Predicted no-effect concentration - PNEC

Normal value in fresh water	14,4	µg/L
Normal value in marine water	7,2	µg/L
Normal value for fresh water sediment	146,9	mg/kg/d

PROFESSIONAL RACING NAVY

Normal value for marine water sediment	162,2	mg/kg/d
Normal value of STP microorganisms	100	µg/L
Normal value for the terrestrial compartment	831	mg/kg/d
Normal value for the atmosphere	NPI	

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		NPI		830 µg/kg bw/d				
Inhalation	NPI	NPI	NPI	2,5 mg/m3	NPI	NPI	NPI	5 mg/m3
Skin	NPI	NPI	NPI	83 mg/kg bw/d	NPI	NPI	NPI	83 mg/kg bw/d

COPPER PHTHALOCYANINE
Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLA	ESP	0,01		RESP Como Cu
WEL	GBR	1	2	As Cu

Predicted no-effect concentration - PNEC

Normal value for fresh water sediment	10	mg/kg/d
Normal value for marine water sediment	1	mg/kg/d
Normal value for the terrestrial compartment	1	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				45 mg/kg bw/d				
Inhalation								4 mg/m3
Skin				225 mg/kg bw/d				450 mg/kg bw/d

2-METHOXY-1-METHYLETHYL ACETATE
Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
AGW	DEU	270	50	
MAK	DEU	270	50	
VLA	ESP	275	50	SKIN
VLEP	FRA	275	50	SKIN
VLEP	ITA	275	50	SKIN
TGG	NLD	550		
VLE	PRT	275	50	SKIN
NDS/NDSch	POL	260		SKIN
TLV	ROU	275	50	SKIN
WEL	GBR	274	50	SKIN
OEL	EU	275	50	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,635	mg/l
Normal value in marine water	0,0635	mg/l

PROFESSIONAL RACING NAVY

Normal value for fresh water sediment	3,29	mg/kg
Normal value for marine water sediment	0,329	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	NPI	
Normal value for the terrestrial compartment	0,29	mg/kg
Normal value for the atmosphere	NPI	

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	500 mg/kg bw/d		36 mg/kg bw/d	1,67 mg/kg				
Inhalation	NPI	NPI	33 mg/m3	33 mg/m3	550 mg/m3	NPI	NPI	275 mg/m3
Skin	NPI	NPI	NPI	320 mg/kg bw/d	NPI	NPI	NPI	796 mg/kg bw/d

TITANIUM DIOXIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	10				
VLEP	FRA	10				
NDS/NDSch	POL	10				INHAL
TLV	ROU	10		15		
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		2,5				RESP

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,184	mg/l
Normal value in marine water	0,0184	mg/l
Normal value for fresh water sediment	100	mg/kg/d
Normal value for marine water sediment	1000	mg/kg/d
Normal value for water, intermittent release	0,193	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	100	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		700 mg/kg bw/d		NPI		NPI		NPI
Inhalation	NPI	NPI	NPI	NPI	NPI	NPI	10 mg/m3	NPI
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

Pyrrithione zinc

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	2,5				

Predicted no-effect concentration - PNEC

Normal value in fresh water	90	ng/l
Normal value in marine water	90	ng/l

PROFESSIONAL RACING NAVY

Normal value for fresh water sediment	0,0095	mg/kg/d
Normal value for marine water sediment	0,0095	mg/kg/d
Normal value of STP microorganisms	0,01	mg/l
Normal value for the terrestrial compartment	1,02	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
Skin							VND	0.01 mg/kg/d

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	341	µg/kg/dw
Normal value for marine water sediment	34,1	µg/kg/dw
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	11	mg/kg
Normal value for the atmosphere	NPI	

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		NPI		500 µg/kg bw/day				
Inhalation		NPI	0,012 mg/l	870 mg/m3		NPI		4,93 mg/m3
Skin		NPI		89.3 µg/kg bw/day	NPI	NPI		750 µg/kg bw/day

XYLENE
Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN
NDS/NDSch	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH			20			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,044	mg/l
Normal value in marine water	0,004	mg/l
Normal value for fresh water sediment	2,52	mg/kg

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Normal value for marine water sediment	0,252	mg/kg
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Normal value of STP microorganisms	1,6	mg/l
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Normal value for the terrestrial compartment	0,852	mg/kg
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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				12,5 mg/kg/d				
Inhalation	260 mg/m3	260 mg/m3	65.3 mg/m3	65,3 mg/m3	442 mg/m3	442 mg/m3	221 mg/m3	221 mg/m3
Skin				125 mg/kg/d				212 mg/kg/d

QUARTZ

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP		0,05			RESP
VLEP	FRA	0,1				RESP
VLEP	ITA	0,1				RESP
TGG	NLD	0,075				RESP
VLE	PRT	0,025				RESP
NDS/NDSch	POL	0,1				RESP
TLV	ROU	0,1				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

ISOBUTYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	300	62	600 (C)	124 (C)	
VLA	ESP	724	150			
VLEP	FRA	710	150	940	200	
VLEP	ITA	241	50	723	150	
TGG	NLD	480				
VLE	PRT	241	50	723	150	
NDS/NDSch	POL	240		720		
TLV	ROU	241	50	723	150	
WEL	GBR	724	150	903	187	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,17	mg/l
Normal value in marine water	0,017	mg/l
Normal value for fresh water sediment	0,877	mg/kg
Normal value for marine water sediment	0,0877	mg/kg
Normal value for water, intermittent release	0,34	mg/l
Normal value of STP microorganisms	200	mg/l

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Normal value for the terrestrial compartment 0,0755 mg/kg

Normal value for the atmosphere NPI

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		5 mg/kg bw/d				
Inhalation	300 mg/m ³	859,7 mg/m ³	35,7 mg/m ³	960 mg/m ³	600 mg/m ³	102,34 mg/m ³	300 mg/m ³	480 mg/m ³
Skin	NPI	5 mg/kg bw/d	NPI	5 mg/kg bw/d	NPI	10 mg/kg/d	NPI	10 mg/kg bw/d

PHOSPHORIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
AGW	DEU	2		4 (C)		INHAL
MAK	DEU	2		4		INHAL
VLA	ESP	1		2		
VLEP	FRA	1	0,2	2	0,5	
VLEP	ITA	1		2		
TGG	NLD	1		2		
VLE	PRT	1		2		
NDS/NDSch	POL	1		2		
TLV	ROU	1		2		
WEL	GBR	1		2		
OEL	EU	1		2		
TLV-ACGIH		1		3		

Predicted no-effect concentration - PNEC

Normal value in fresh water	NPI
Normal value in marine water	NPI
Normal value for fresh water sediment	NPI
Normal value for marine water sediment	NPI
Normal value for water, intermittent release	NPI
Normal value of STP microorganisms	NPI
Normal value for the food chain (secondary poisoning)	NPI
Normal value for the terrestrial compartment	NPI
Normal value for the atmosphere	NPI

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			100 µg/kg bw/day					
Inhalation			360 µg/m ³	4,57 mg/m ³	2 mg/m ³		1 mg/m ³	10,7 mg/m ³

CUMENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	

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AGW	DEU	50	10	200	40	SKIN
VLA	ESP	50	10	250	50	SKIN
VLEP	FRA	100	20	250	50	SKIN
VLEP	ITA	50	10	250	50	SKIN
TGG	NLD	100		250		SKIN
VLE	PRT	50	10	250	50	INHAL
VLE	PRT	50	10	250	50	SKIN
NDS/NDSch	POL	50		250		SKIN
TLV	ROU	50	10	250	50	SKIN
WEL	GBR	125	25	250	50	SKIN
OEL	EU	50	10	250	50	SKIN
TLV-ACGIH			5			

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.

TLV of solvent mixture: 534 mg/m³

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.

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).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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

PROFESSIONAL RACING NAVY

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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	blue	
Odour	caratteristico di nafta petrolio	
Melting point / freezing point	not available	
Initial boiling point	> 35 °C	
Flammability	flammable liquid	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	39 °C	Method:Abel-Pensky Closed Cup
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	Reason for missing data:substance/mixture is non-soluble (in water)
Kinematic viscosity	>20,5 mm ² /sec (40°C)	Method:v cinematica = v g/mm·s a 40°C / g/mm ³
Dynamic viscosity	2'15" ± 15"	Method:Coupe Ford Ø 4 Temperature: 20 °C
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	2,18 mmHg	Method:Valore calcolato
Density and/or relative density	1600 ± 50 g/L kg/l	Method:OECD 109 Temperature: 20 °C
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

Total solids (250°C / 482°F)	80,48 %	Method:Valore calcolato
VOC (Directive 2010/75/EU)	19,52 % - 316,24 g/litre	
VOC (volatile carbon)	16,87 % - 273,36 g/litre	

SECTION 10. Stability and reactivity

PROFESSIONAL RACING NAVY**10.1. Reactivity**

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

CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

COPPER PHTHALOCYANINE

Decomposes at temperatures above 350°C/662°F.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

Con l'aria può dare lentamente perossidi che esplodono per aumento di temperatura.

ISOBUTYL ACETATE

Decomposes under the effect of heat. Attacks various types of plastic materials.

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°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.

2-METHOXY-1-METHYLETHYL ACETATE

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

XYLENE

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

ISOBUTYL ACETATE

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

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

10.4. Conditions to avoid

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

PROFESSIONAL RACING NAVY

Pyrrithione zinc

Evitare l'esposizione a: luce solare diretta temperature estremamente elevate o estremamente basse

ISOBUTYL ACETATE

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

CALCIUM CARBONATE

Incompatible with: acids.

COPPER PHTHALOCYANINE

Incompatible with: strong acids,strong oxidants.

2-METHOXY-1-METHYLETHYL ACETATE

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

Pyrrithione zinc

Keep away from: strong oxidising agents,strong acids,strong alkalis.

ISOBUTYL ACETATE

Incompatible with: strong oxidants,nitrates,strong acids,strong bases.

PHOSPHORIC ACID

Incompatible with: metals,strong alkalis,aldehydes,organic sulphides,peroxides.

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.

CALCIUM CARBONATE

May develop: calcium oxides,carbon oxides.

COPPER PHTHALOCYANINE

May develop: nitric oxide,carbon oxides,copper oxides.

Pyrrithione zinc

Può sviluppare: anidride carbonica monossido di carbonio composti dello zolfo azotoguardo

PHOSPHORIC ACID

May develop: phosphoryl oxides.

SECTION 11. Toxicological information

PROFESSIONAL RACING NAVY

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

La principale via di entrata è quella cutanea, mentre quella respiratoria è meno importante, data la bassa tensione di vapore del prodotto.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE

LAVORATORI: inalazione; contatto con la cute.

XYLENE

WORKERS: inhalation; contact with the skin.

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

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

2-METHOXY-1-METHYLETHYL ACETATE

Al di sopra di 100 ppm si ha irritazione delle mucose oculari, nasali e orofaringee. A 1000 ppm si notano turbe nell'equilibrio e irritazione severa agli occhi. Gli esami clinici e biologici praticati sui volontari esposti non hanno rivelato anomalie. L'acetato produce maggiore irritazione cutanea ed oculare per contatto diretto. Non vengono riportati effetti cronici sull'uomo (INCR, 2010).

XYLENE

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

Interactive effects

XYLENE

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.

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	1947,14 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

DICOPPER OXIDE

LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	500 mg/kg
LC50 (Inhalation mists/powders):	3,34 mg/l/4h

CALCIUM CARBONATE

LD50 (Oral):	6450 mg/kg Rat
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COLOPHONY

PROFESSIONAL RACING NAVY

LD50 (Dermal): > 2000 mg/kg RAT
LD50 (Oral): > 2800 mg/kg RAT

ZINC OXIDE

LD50 (Dermal): > 2000 mg/kg RAT
LD50 (Oral): > 5000 mg/kg RAT
LC50 (Inhalation vapours): > 5,7 ppm/4h RAT

Vinyl chloride copolymère

LD50 (Oral): > 2000 mg/kg RATTO

ZINEB

LD50 (Dermal): > 2500 mg/kg Rat
LD50 (Oral): > 1000 mg/kg Rat
LC50 (Inhalation mists/powders): > 5 mg/l/1h (air) Rat

CLOROPARAFFINA

LD50 (Dermal): > 4000 mg/kg RATTO
LD50 (Oral): > 10000 mg/kg RATTO

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 3160 mg/kg Rat
LD50 (Oral): 8500 mg/kg Rat
LC50 (Inhalation vapours): 6193 mg/m³/4h Ratto

ZEOLITE

LD50 (Dermal): > 2000 mg/kg Rabbit
LD50 (Oral): > 5000 mg/kg Rat
LC50 (Inhalation mists/powders): > 15 mg/l/1h Rat

TITANIUM DIOXIDE

LD50 (Dermal): > 5000 mg/kg CONIGLIO
LD50 (Oral): > 10000 mg/kg Rat
LC50 (Inhalation vapours): > 6,8 mg/l/4h RATTO

Pyrrithione zinc

LD50 (Dermal): > 2000 mg/kg Coniglio
LD50 (Oral): 221 mg/kg Ratto
LC50 (Inhalation mists/powders): 0,14 mg/l/4h Ratto - maschio e femmina

2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

LD50 (Dermal): > 23000 mg/kg CONIGLIO
LD50 (Oral): > 15000 mg/kg RATTO

XYLENE

LD50 (Dermal): > 5000 ml/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

PROFESSIONAL RACING NAVY

LC50 (Inhalation vapours): 6700 ppm/4h Rat

QUARTZ

LD50 (Oral): > 500 mg/kg

ISOBUTYL ACETATE

LD50 (Dermal): > 17400 mg/kg coniglio
LD50 (Oral): 13413 mg/kg ratto maschio
LC50 (Inhalation mists/powders): > 23,4 mg/l/4h ratto

PHOSPHORIC ACID

LD50 (Dermal): 2740 mg/kg Rabbit
LD50 (Oral): 2600 mg/kg Rat
LC50 (Inhalation mists/powders): > 0,85 mg/l/1h Rat

CUMENE

LD50 (Dermal): > 3160 mg/kg Rabbit
LD50 (Oral): 1400 mg/kg Rat
LC50 (Inhalation vapours): > 17,6 mg/l/6h Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

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".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

PROFESSIONAL RACING NAVY

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: >20,5 mm²/sec (40°C)

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 highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity**PHOSPHORIC ACID**

EC50 - for Crustacea > 100 mg/l/48h
EC50 - for Algae / Aquatic Plants > 100 mg/l/72h

XYLENE

LC50 - for Fish 2,6 mg/l/96h *Oncorhynchus mykiss*
Chronic NOEC for Fish > 1,3 mg/l *Oncorhynchus mykiss* 56gg

COLOPHONY

LC50 - for Fish > 60,3 mg/l/96h
EC50 - for Crustacea > 911 mg/l/48h
EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h

CALCIUM CARBONATE

EC50 - for Algae / Aquatic Plants > 14 mg/l/72h

TITANIUM DIOXIDE

LC50 - for Fish > 1100 µg/L/96
EC50 - for Crustacea > 103,9 mg/l/48h
EC50 - for Algae / Aquatic Plants > 100 mg/l/72h

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish > 100 mg/l/96h *Oncorhynchus mykiss*
EC50 - for Crustacea > 408 mg/l/48h *Daphnia magna*
EC50 - for Algae / Aquatic Plants > 100 mg/l/72h
Chronic NOEC for Fish 47,5 mg/l *Oncorhynchus mykiss*
Chronic NOEC for Crustacea > 99 mg/l *Daphnia magna*
Chronic NOEC for Algae / Aquatic Plants > 999 mg/l *Selenastrum capricornutum*

ISOBUTYL ACETATE

LC50 - for Fish 17 mg/l/96h *Oryzias latipes*
EC50 - for Crustacea 25 mg/l/48h *Daphnia magna*

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EC50 - for Algae / Aquatic Plants	370 mg/l/72h <i>Pseudokirchneriella subcapitata</i>
Chronic NOEC for Fish	> 1,3 mg/l
Chronic NOEC for Crustacea	23 mg/l 21d <i>Daphnia magna</i>
DICOPPER OXIDE	
LC50 - for Fish	0,0384 mg/l/96h <i>Pimephales promelas</i>
EC50 - for Crustacea	0,0038 mg/l/48h <i>Daphnia similis</i>
EC50 - for Algae / Aquatic Plants	0,0238 mg/l/72h <i>Pseudokirchneriella subcapitata</i>
Chronic NOEC for Fish	0,0116 mg/l <i>Oncorhynchus mykiss</i>
Chronic NOEC for Crustacea	0,0126 mg/l <i>Daphnia magna</i>
Chronic NOEC for Algae / Aquatic Plants	0,0029 mg/l <i>Phaeodactylum tricornutum</i>
ZINC OXIDE	
LC50 - for Fish	1,1 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea	1,7 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	0,14 mg/l/72h <i>Pseudokirchnerella subcapitata</i>
Chronic NOEC for Fish	0,53 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,024 mg/l
ZINEB	
LC50 - for Fish	> 7,2 mg/l/96h <i>Lepomis macrochirus</i> (Bluegill)
EC50 - for Crustacea	> 0,97 mg/l/48h <i>Daphnia magna</i> (Water flea)
Hydrocarbons, C9, aromatics (CAS number: 64742-95-6)	
EC50 - for Algae / Aquatic Plants	> 290 µg/l/72h 290 - 420 µg/L
ZEOLITE	
LC50 - for Fish	> 680 mg/l/96h fish
EC50 - for Crustacea	> 100 mg/l/48h <i>Daphnia</i>
EC50 - for Algae / Aquatic Plants	> 300 mg/l/72h Algae
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bioxirane	
LC50 - for Fish	> 2 mg/l/96h PESCI
EC50 - for Crustacea	> 1,8 mg/l/48h DAFNIE
EC50 - for Algae / Aquatic Plants	> 11 mg/l/72h
EC10 for Algae / Aquatic Plants	> 4,2 mg/l/72h
Pyrrithione zinc	
LC50 - for Fish	> 0,0026 mg/l/96h <i>Cavedano americano</i>
EC50 - for Algae / Aquatic Plants	0,00088 mg/l/72h <i>Skeletonema costatum</i>
EC10 for Algae / Aquatic Plants	0,00068 mg/l/72h <i>Skeletonema costatum</i>

12.2. Persistence and degradability**PHOSPHORIC ACID**

Solubility in water > 1000 g/l

Degradability: information not available

PROFESSIONAL RACING NAVY

XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

COLOPHONY

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

COPPER PHTHALOCYANINE

Solubility in water 0,001 mg/l

NOT rapidly degradable

CALCIUM CARBONATE

Solubility in water 0,1 - 100 mg/l

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

CUMENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ISOBUTYL ACETATE

Solubility in water > 5,6 g/l

Rapidly degradable

DICOPPER OXIDE

Solubility in water 0,639 mg/l

NOT rapidly degradable

ZINC OXIDE

Solubility in water > 1,2 mg/l 1.2 - 2.9 mg/L @ 20 °C

NOT rapidly degradable

Hydrocarbons, C9, aromatics (CAS number:
64742-95-6)

Solubility in water > 93 mg/l

Rapidly degradable

2,2'-[(1-methylethylidene)bis(4,1-
phenyleneoxymethylene)]bisoxirane

Solubility in water > 6,9 mg/l 0,1 - 100

NOT rapidly degradable

Pyrithione zinc

Rapidly degradable

12.3. Bioaccumulative potential

XYLENE

Partition coefficient: n-octanol/water 3,12

BCF 25,9

COLOPHONY

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Partition coefficient: n-octanol/water	3
BCF	56,23
2-METHOXY-1-METHYLETHYL ACETATE	
Partition coefficient: n-octanol/water	1,2
CUMENE	
Partition coefficient: n-octanol/water	3,55
BCF	94,69
ISOBUTYL ACETATE	
Partition coefficient: n-octanol/water	2,3
BCF	15,3
ZINC OXIDE	
Partition coefficient: n-octanol/water	< 4
BCF	> 175
ZINEB	
Partition coefficient: n-octanol/water	> 1,3
BCF	> 225 µg/l <i>Oncorhynchus mykiss</i> (rainbow trout)
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	
Partition coefficient: n-octanol/water	> 3242 Kow 3.242 @ 25 °C
BCF	31
Pyrithione zinc	
Partition coefficient: n-octanol/water	< 4

12.4. Mobility in soil

XYLENE	
Partition coefficient: soil/water	2,73
COLOPHONY	
Partition coefficient: soil/water	3,7289
CUMENE	
Partition coefficient: soil/water	2,946
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	
Partition coefficient: soil/water	2,65

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

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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: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: NO



PROFESSIONAL RACING NAVY

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 367, 650		
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	Maximum quantity: 60 L	Packaging instructions: 355
	Special provision:	A3, A72, A192	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: P5c-E1

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

Product
Point 3 - 40

Contained substance
Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

ZINEB

Substances subject to the Rotterdam Convention:

PROFESSIONAL RACING NAVY

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 been performed for the following contained substances

DICOPPER OXIDE

2-METHOXY-1-METHYLETHYL ACETATE

XYLENE

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 2	Flammable solid, category 2
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Carc. 1B	Carcinogenicity, category 1B
Repr. 1B	Reproductive toxicity, category 1B
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
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
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
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2

PROFESSIONAL RACING NAVY

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H290	May be corrosive to metals.
H350	May cause cancer.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
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.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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.

PROFESSIONAL RACING NAVY

- 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

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 - 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 / 02 / 03 / 07 / 08 / 09 / 11 / 12 / 15 / 16.