

VEROLAC

ΕN

Safety data sheet

Solventborne enamel ideal for painting metallic surfaces

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product name VEROLAC 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

1.3. Details of the supplier of the safety data sheet

Name Full address District and Country	VITEX - HERMES YANNIDIS BROS S.A. IMEROS TOPOS 19300 ASPROPYRGOS (ATTIKI) GREECE Tel. (0030) 2105589400
e-mail address of the competent person responsible for the Safety Data Sheet	Fax (0030) 2105597859 vitexlab@vitex.gr
Product distribution by	YANNIDIS BROS S.A.
1.4. Emergency telephone number	
For urgent inquiries refer to	(0030) 2105589400 (0030) 2107793777

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity,	H412	Harmful to aquatic life with long lasting effects.
category 3		

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:	
R phrases:	10-52/53-66-67

Warning

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

2.2. Label elements.

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

Hazard pictograms:



Signal words:

Hazard statements:



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

H226	Flammable liquid and vapour.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H412	Harmful to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
EUH208	Contains: COBALT BIS (2-ETHYLHEXAN	OATE)
	ETHYL METHYL KETOXIME	
	•• • • • •	

May produce an allergic reaction.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P405	Store locked up.
P501	Dispose of contents / container to
Contains:	HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

2.3. Other hazards.

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

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
HYDROCARBONS, C9 CAS. 64742-48-9 EC. 919-857-5 INDEX. 649-327-00-	25 - 35	ES, ISOALKANES, CYCLICS, <2% AROMATIC R10, R66, R67, Xn R65, Note P	CS Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Note P
Reg. no. 01-21194632	258-XXXX		
HYDROCARBONS, C1	0-C13, n-ALKA	NES, ISOALKANES, CYCLICS, <2% AROMATI	ICS
CAS. 64742-48-9 EC. 918-481-9 INDEX. 649-327-00-	6	R66, Xn R65, Note P	Asp. Tox. 1 H304, EUH066, Note P
Reg. no. 01-21194572			
XYLENE (MIXTURE O	,		
CAS. 1330-20-7 EC. 215-535-7 INDEX. 601-022-00-	3 - 5 0	R10, Xn R20/21, Xi R38, Note C	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, Note C
Reg. no. 01-21194882			
CALCIUM BIS (2-ETH)			
CALCION BIS (2-ETH)	1 - 2.5	/ Repr. Cat. 3 R63, Xi R41	Repr. 2 H361d, Eye Dam. 1 H318
EC. 205-249-0 INDEX.	1-2,5		
Reg. no. 01-21199782	297-19-XXXX		
HYDROCARBONS, CS	-C12, n-ALKAN	ES, ISOALKANES, CYCLICS, AROMATICS (2-	-25%)
CAS. 64742-82-1	0,1 - 0,9	R10, R66, R67, Xn R65, N R51/53, Note P	Flam. Liq. 3 H226, STOT RE 1 H372, Asp. Tox. 1 H304,
EC. 919-446-0			STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Note P
INDEX. 649-330-00-	2		
Reg. no. 01-2119458	049-XXXX		
ETHYL METHYL KETC	DXIME		
CAS. 96-29-7	0,3 - 0,5	Carc. Cat. 3 R40, Xn R21, Xi R41, Xi R43	Carc. 2 H351, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Sens. 1 H317
EC. 202-496-6			
INDEX. 616-014-00-	0		



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

COBALT BIS (2-ETHYLHEXANOATE)

CAS. 136-52-7 0,2 - 0,4 EC. 205-250-6 INDEX. Xn R21/22, Xi R38, Xi R43, N R50/53

Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Irrit. 2 H315,	
Skin Sens. 1 H317, Aquatic Chronic 1 H410	

Note: Upper limit is not included into the range.

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

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

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

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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

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



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SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. 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 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.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА № 13 от 30 декември 2003 г
CYP	Κύπρος	К.Δ.П. 268/2001; К.Δ.П. 55/2004; К.Δ.П. 295/2007; К.Δ.П. 70/2012
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
GRB	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09- Institut za sigurnost Zagreb
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
EU	OEL EU TLV-ACGIH	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. ACGIH 2014

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

hreshold Limit Value	э.								
Туре	Country	TWA/8	h	STEL/15r	nin				
		mg/m3	ppm	mg/m3	ppm				
OEL	EU	1200							
lealth - Derived no-et	ffect level	- DNEL	/ DMEL						
	Effect	s on con	sumers.			Effects on wo	orkers		
Route of exposure	Acute		cute ystemic	Chronic local	Chronic systemic	Acute local	Acute systemi	Chronic local	Chronic systemic
Oral.				VND	300 mg/kg/d				
Inhalation.				VND	900 mg/m3	VND	1500 mg/m3		
Skin.				VND	300 mg/kg/d			VND	300 mg/kg/d

	HYDRO	DCARBONS	6, C10-C13, n	-ALKANES,	ISOALKANES, CYCLICS, <2% AROMATICS
Threshold Limit	Value.				
Туре	Country	TWA/8h		STEL/15r	nin
		mg/m3	ppm	mg/m3	ppm
OEL	EU	1200			

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

			X	YLENE (MIXTU	RE OF ISC	OMERS)			
Threshold Limit Valu	le.								
Туре	Country	TWA/	8h	STEL/15n	nin				
		mg/m	3 ppm	mg/m3	ppm				
TLV	BGR	221		442			SKIN.		
TLV	CYP	221	50	442	100		SKIN.		
TLV	CZE	200		400			SKIN.		
WEL	GRB	220	50	441	100				
TLV	GRC	435	100	650	150		SKIN.		
GVI	HRV	221	50	442	100		SKIN.		
MDK	HRV	440	100	655	150				
AK	HUN	221		442			SKIN.		
OEL	EU	221	50	442	100		SKIN.		
TLV-ACGIH		434	100	651	150				
Health - Derived no-e	effect leve	I - DNE	L/DMEL						
	Effec	ts on co	onsumers.			Effects on wo	orkers		
Route of exposure	e Acute	e local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute system	mic Chronic local	Chronic systemic
Oral.				VND	1,6 mg/kg/d				
Inhalation.	174 mg/m	13	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	VND	77 mg/m3
Skin.				VND	108			VND	180

					CALCIUM BIS (2-ETHYLHEXA			
Threshold Limit Val	ue.								
Туре	Country	TWA/8	8h		STEL/	15min			
		mg/m3	3	ppm	mg/m3	ppm			
TLV	GRC	5000							
Health - Derived no-	effect level	- DNEL	L / C	MEL					
	Effec	ts on co	nsu	mers.			Effects on w	orkers	
Route of exposure	e Acute	elocal		ite temic	Chronic loo	cal Chronic systemic	Acute local	Acute systemic Chronic local	Chronic systemic
Oral.					VND	2,83 mg/m3			
Inhalation.					VND	9,86 mg/m3		VND	39,98 mg/m3
Skin.					VND	2,83 mg/m3		VND	5,67 mg/kg/d

mg/kg/d

	HYDROC	CARBC	NS, C9-C12,	, n-ALKANES, IS	OALKANES	, CYCLICS, AR	OMATICS (2-25%)	
Threshold Limit Valu	le.							
Туре	Country	TWA/	8h	STEL/15r	nin			
		mg/m	3 ppm	mg/m3	ppm			
OEL	EU	350						
Health - Derived no-e	effect level	- DNE	L/DMEL					
	Effect	s on co	onsumers.			Effects on we	orkers	
Route of exposure	Acute	local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic Chronic local	Chronic systemic
Oral.				VND	26 mg/kg/d			
Inhalation.				VND	71 mg/m3		VND	330 mg/m3
Skin.				VND	26 mg/kg/d		VND	44 mg/kg/d

					S (2_F	ETHYLHEXANOATE)
				CODALI DI	5 (2-6	
Threshold Limit	Value.					
Туре	Country	TWA/8h		STE	EL/15	min
		mg/m3	ppm	mg/	m3	ppm
TLV	GRC	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. mg/kg/d



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

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. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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.

3.1. Information on basic physical and chemical	noperties.
Appearance	viscous liquid
Colour	as showed in color folder
Odour	characteristic
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	23 ≤ T ≤ 60 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	0,6 % (V/V).
Upper explosive limit.	7,1 % (V/V).
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	0,96-1,26 g/ml
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	65-75 KU
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information.	
Information not available.	

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

2-BUTANONE OXIME: decomposes under the effect of heat.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.



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

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

2-BUTANONE OXIME: thermal decomposition can have an explosive course. It reacts violently with strong oxidising agents and acids. Above the flash point (69°C), explosive mixtures can form with air.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

10.4. Conditions to avoid.

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

10.5. Incompatible materials.

2-BUTANONE OXIME: oxidising substances and strong acids.

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.

2-BUTANONE OXIME: nitrogen oxides, carbon oxides.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

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.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

This product contains sensitizing substance/s and may cause allergic reactions.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

ETHYL METHYL KETOXIME LD50 (Oral). LD50 (Dermal). LC50 (Inhalation).	2400 mg/kg Rat 1000 mg/kg Rabbit 20 mg/l/4h Rat				
XYLENE (MIXTURE OF ISOME					
LD50 (Oral). LC50 (Inhalation).	> 2000 mg/kg Rat > 10 mg/l/4h Rat				
HYDROCARBONS, LD50 (Oral). LD50 (Dermal). LC50 (Inhalation).	C9-C11, n-ALKANES, > 5000 mg/kg Rat > 5000 mg/kg Rabbit > 20 mg/l/4h Rat	ISOALKANES,	CYCLICS,	<2%	AROMATICS
HYDROCARBONS, C LD50 (Oral). LD50 (Dermal). LC50 (Inhalation).	:10-C13, n-ALKANES, > 5000 mg/kg > 5000 mg/l/4h Rat	ISOALKANES,	CYCLICS,	<2%	AROMATICS
HYDROCARBONS, C LD50 (Oral). LC50 (Inhalation).	9-C12, n-ALKANES, > 5000 mg/kg Rat > 20 mg/l/4h Rat	ISOALKANES,	CYCLICS,	AROMATICS	(2-25%)

SECTION 12. Ecological information.

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

12.1. Toxicity.



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SECTION 12. Ecological inform	ation/>>				
COBALT BIS (2-ETHYLHEXANOAT					
LC50 - for Fish.	> 10 mg/l/96h	1			
EC50 - for Crustacea.	> 10 mg/l/48h				
EC50 - for Algae / Aquatic Plants.	> 1 mg/l/72h	1			
	r mg/// zn				
XYLENE (MIXTURE OF ISOMERS))				
LC50 - for Fish.	> 1 mg/l/96h				
EC50 - for Crustacea.	> 1 mg/l/48h				
EC50 - for Algae / Aquatic Plants.	> 1 mg/l/72h				
Chronic NOEC for Fish.	> 1 mg/l base	d on test data			
Chronic NOEC for Crustacea.	> 0,1 mg/l				
				-20/	
HYDROCARBONS, C9-C		ISOALKANES,	CYCLICS,	<2%	AROMATICS
LC50 - for Fish.	> 100 mg/l/96				
EC50 - for Crustacea.	> 100 mg/l/48				
EC50 - for Algae / Aquatic Plants.	> 100 mg/l/72				
Chronic NOEC for Fish.		sed on modeled data			
Chronic NOEC for Crustacea.	> 0,1 mg/l bas	sed on modeled data			
HYDROCARBONS, C10-0	C13, n-ALKANES,	ISOALKANES,	CYCLICS,	<2%	AROMATICS
LC50 - for Fish.	> 100 mg/l/96	,	C. 52100,	_,,,	
EC50 - for Crustacea.	> 100 mg/l/48				
EC50 - for Algae / Aquatic Plants.	> 100 mg/l/40 > 100 mg/l/72				
Chronic NOEC for Fish.		sed on modeled data			
Chronic NOEC for Crustacea.	> 0,1 mg/l bas	sed on modeled data			
CALCIUM BIS (2-ETHYLHEXANOA	TE)				
LC50 - for Fish.	, 180 mg/l/96h				
EC50 - for Crustacea.	85,4 mg/l/48h				
EC50 - for Algae / Aquatic Plants.	49,3 mg/l/72h				
	10,0 119,0 121				
HYDROCARBONS, C9-C	12, n-ALKANES,	ISOALKANES,	CYCLICS,	AROMATICS	(2-25%)
LC50 - for Fish.	> 1 mg/l/96h				
EC50 - for Crustacea.	> 1 mg/l/48h				
EC50 - for Algae / Aquatic Plants.	> 1 mg/l/72h				
Chronic NOEC for Fish.		sed on modeled data			
Chronic NOEC for Crustacea.		sed on test data			
12.2. Persistence and degradability	<i>I</i> .				
XYLENE (MIXTURE OF ISOMERS) Rapidly biodegradable.)				
HYDROCARBONS, C9-0 Rapidly biodegradable.	C11, n-ALKANES,	ISOALKANES,	CYCLICS,	<2%	AROMATICS
HYDROCARBONS, C10-0	C13, n-ALKANES,	ISOALKANES,	CYCLICS,	<2%	AROMATICS
Rapidly biodegradable.	, - ,	,	,		
CALCIUM BIS (2-ETHYLHEXANOA	TE)				
Rapidly biodegradable.					
HYDROCARBONS, C9-C	12, n-ALKANES,	ISOALKANES,	CYCLICS,	AROMATICS	(2-25%)
Rapidly biodegradable.					
12.3. Bioaccumulative potential.					
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water					
HYDROCARBONS, C9-0	C11, n-ALKANES,	ISOALKANES,	CYCLICS,	<2%	AROMATICS
Partition coefficient: n-octanol/water	5				
HYDROCARBONS, C9-C		ISOALKANES,	CYCLICS,	AROMATICS	(2-25%)
Partition coefficient: n-octanol/water		ISUALNANES,	010LI03,		(2-23%)
	. 0,1				
12.4. Mobility in soil. Information not available.					
12.5. Results of PBT and vPvB asso	essment.				



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

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

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG, IATA: UN: 1263

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

The product, if packaged in packages of less than 30 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

14.2. UN proper shipping name.

ADR / RID:	PAINT 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:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: 30 Special Provision: 640E	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	Special Instructions:	A3, A72, A192	

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.





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SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulation	ons/legislation specific for the substance or mixture.
Seveso category. 6	
Restrictions relating to the product or contained subs Product.	stances pursuant to Annex XVII to EC Regulation 1907/2006.
Point. 3 - 40	
Substances in Candidate List (Art. 59 REACH).	
None. Substances subject to authorisarion (Annex XIV REA	ACH).
None. Substances subject to exportation reporting pursuan None.	<u>t to (EC) Reg. 649/2012:</u>
Substances subject to the Rotterdam Convention: None.	
Substances subject to the Stockholm Convention: None.	
<u>Healthcare controls.</u> Workers exposed to this chemical agent mus related to the workers' health and safety are mode	t not undergo health checks, provided that available risk-assessment data prove that the risks est and that the 98/24/EC directive is respected.
VOC (Directive 2004/42/EC) :	
One-pack performance coatings. VOC given in g/litre of product in a ready-to-use c	condition :
Limit value:	500,00 (2010)

495,00

15.2. Chemical safety assessment.

VOC of product :

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

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

Carc. Repr. Acute STO1 Asp. STO1 Eye I Skin StO1 Skin Aqua Aqua	. 2 e Tox. 4 T RE 1 Tox. 1 T RE 2 Dam. 1 Irrit. 2 Irrit. 2 T SE 3 Sens. 1 attic Chronic 1 attic Chronic 2 attic Chronic 3 d	Flammable liquid, category 3 Carcinogenicity, category 2 Reproductive toxicity, category 2 Acute toxicity, category 4 Specific target organ toxicity - repeated exposure, category 1 Aspiration hazard, category 1 Specific target organ toxicity - repeated exposure, category 2 Serious eye damage, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Skin sensitization, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 2 Hazardous to the aquatic environment, chronic toxicity, category 3 Flammable liquid and vapour. Suspected of causing cancer. Suspected of damaging the unborn child. Harmful if swallowed. Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause respiratory irritation. May cause an allergic skin reaction.
H317 H336		May cause an allergic skin reaction. May cause drowsiness or dizziness.



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

H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10	FLAMMABLE.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R21	HARMFUL IN CONTACT WITH SKIN.
R21/22	HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.
R38	IRRITATING TO SKIN.
Carc. Cat. 3	Carcinogenicity, category 3.
R40	LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC
	ENVIRONMENT.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC
	ENVIRONMENT.
R52/53	HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC
	ENVIRONMENT
Repr. Cat. 3	Reproductive toxicity, development, category 3.
R63	POSSIBLE RISK OF HARM TO THE UNBORN CHILD.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
1.07	VALOUND WAT OAGE DROWGINEGO AND DIZLINEGO.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EU) 453/2010 of the European Parliament
- 7. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 9. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament



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

11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

- The Merck Index. - 10th Edition

- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

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.

Changes to previous review: The following sections were modified: 01 / 07 / 09.