

PIGMENTED BLACK POLYUR. BASE

Revision nr.4 Dated 2/9/2014 Printed on 2/9/2014 Page n. 1 / 11 ΕN

Safety data sheet

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

1.1. Product identifier

Code: FP285N

Product name PIGMENTED BLACK POLYUR. BASE

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

Intended use Paint for wood

1.3. Details of the supplier of the safety data sheet

Name INDUSTRIA CHIMICA ADRIATICA S.P.A.

Full address Via S. Pertini, 52

District and Country 62012 Civitanova Marche (MC)

ITALY

Tel. +39 0733 8080 Fax +39 0733 808140

e-mail address of the competent person

responsible for the Safety Data Sheet icalab1@icaspa.com

Product distribution by INDUSTRIA CHIMICA ADRIATICA S.p.A.

1.4. Emergency telephone number

For urgent inquiries refer to Tel. + (39) 733 8080 Fax. + (39) 733 808140 (From Monday to Friday: 8.00 am -

6.00 pm)

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 Directives 67/548/EEC and 1999/45/EC (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.

Danger Symbols: F-Xn

R phrases: 11-20/21

2.2. Label elements.

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.





R11 HIGHLY FLAMMABLE.

R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

\$ 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE.

S16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

S23 DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY.

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

\$36/37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

S51 USE ONLY IN WELL-VENTILATED AREAS.

Contains: Xylene, mixture of isomers with ethylbenzene





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

Contains: Mixture of: N,N'-ethane-1,2-diylbis(hexanamide);

12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide; N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

May produce an allergic reaction.

2.3. Other hazards.

Information not available.

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).

Xylene, mixture of isomers with ethylbenzene

CAS. 1330-20-7 15 - 16.5 R10, Xn R20/21, Xi R38, Note C Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332,

EC. 215-535-7 Skin Irrit. 2 H315, Note C

INDEX. 601-022-00-9

Reg. no. 01-2119488216-32-0023

Butanone

CAS. 78-93-3 3,5 - 4 R66, R67, F R11, Xi R36 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC. 201-159-0 INDEX. 606-002-00-3

Reg. no. 01-2119457290-43-0002

n-butyl acetate

CAS. 123-86-4 3 - 3,5 R10, R66, R67 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

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

Reg. no. 01-2119485493-29-0007

Ethyl acetate

CAS. 141-78-6 0,4 - 0,45 R66, R67, F R11, Xi R36 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC. 205-500-4 INDEX. 607-022-00-5

Reg. no. 01-2119475103-46-XXXX

Ethylbenzene

CAS. 100-41-4 0,05 - 0,1 F R11, Xn R20 Flam. Liq. 2 H225, Acute Tox. 4 H332

EC. 202-849-4 INDEX. 601-023-00-4

Reg. no. 01-2119489370-35-XXX

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 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.

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





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SECTION 4. First aid measures. .../>>

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.

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.

7.3. Specific end use(s).

See paragraph 1.2. For further information consult the technical data sheet.





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SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

United Kingdom

Éire OEL EU EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended). Code of Practice Chemical Agent Regulations 2011.

Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC. ACGIH 2012

TLV-ACGIH

		Xylene,	mixture of isc	mers with	ethylbenzene			
e.					_			
Country	TWA/8h		STEL/15	imin				
•	mg/m3	ppm	mg/m3	ppm				
EU	221	50	442	100	SKIN			
						A4. IBE		
oncentra	tion - PNE	C.				ŕ		
e terrestr	ial comparti	ment				2,31	mg/kg	
sh water						0,327		
arine wate	er					0,327	mg/l	
esh water	sediment					12,46	mg/kg	
arine wat	er sedimen	t				12,46	mg/kg	
ffect leve	I - DNEL /	DMEL				•	0 0	
Effec	ts on consu	ımers.			Effects on	workers		
Acute	e Ad	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
local	sy	stemic	local	systemic	local	systemic	local	systemic
	•		VND	1.6				
				mg/kg				
			VND	14.8	289	77	221	77
				mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
			VND	108	Ū	ŭ	VND	180
				mg/kg				mg/kg/d
	Country EU oncentra te terrestr sh water arine water terine water terine wat terine wat Effect leve	Country TWA/8h mg/m3 EU 221 concentration - PNEC the terrestrial comparts sh water arine water sediment larine water sediment larine water sediment ffect level - DNEL / Effects on consunctions. Acute Acute	country TWA/8h mg/m3 ppm EU 221 50 concentration - PNEC. the terrestrial compartment sh water the water sediment the sarine water sediment the sediment the sediment that the	country TWA/8h STEL/15 mg/m3 ppm mg/m3 EU 221 50 442 concentration - PNEC. The terrestrial compartment sh water Farine water Farine water sediment the startine water sediment the sediment that in a water sediment that is a water sediment that water sediment that is a water sediment that wa	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm mg/m3 ppm EU 221 50 442 100 Concentration - PNEC. The terrestrial compartment sh water arine water sediment that arine water sediment serine water sediment serine water sediment that arine water sediment serine water sediment that arine water sediment that arine water sediment that arine water sediment that the sediment serine water sediment that the sediment serine water sediment that the sediment that the sediment serine water sediment ser	Country TWA/8h mg/m3 ppm STEL/15min mg/m3 ppm EU 221 50 442 100 SKIN concentration - PNEC. deterrestrial compartment sh water arine water sediment detect level - DNEL / DMEL Effects on consumers. Acute Acute Chronic Chronic Acute local systemic local systemic local VND 1.6 mg/kg VND 14.8 289 mg/m3 mg/m3 NND	Country TWA/8h	Country TWA/8h

				But	tanone				
Threshold Limit Value									
Type C	Country	TWA/8h		STEL/15	min				
· · · · · · · · · · · · · · · · · · ·		mg/m3	ppm	mg/m3	ppm				
OEL E	U	600	200	900	300				
TLV		600	200	900 (C)	300 (C)				
Predicted no-effect co	ncentra	tion - PNE	C.						
Normal value for the	terrestri	al compart	tment				22,5	mg/Kg	
Normal value in fres	h water						55,8	mg/l	
Normal value in mar	ine wate	r					55,8	mg/l	
Health - Derived no-eff	fect leve	I - DNEL /	DMEL						
	umers.			Effects on	workers				
Route of exposure	Acute	e A	cute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	S	ystemic	local	systemic	local	systemic	local	systemic
Oral.	VND	3	1						
		m	ng/kg						
Inhalation.	VND	10	06					VND	600
		m	ng/m3						mg/m3
Skin.	VND	4	12					VND	1161
		m	ng/kg/24						mg/kg/24
		h							h



OEL



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mg/m3

ppm

200

200

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> mg/kg mg/l mg/l mg/kg mg/kg mg/l

0,0903

SECTION 8. Exposure controls/personal protection.

			n-butyl acetate
Threshold Limi	it Value.		
Type	Country	TWA/8h	STEL/15min

mg/m3

ppm

150

TLV 150 Predicted no-effect concentration - PNEC. Normal value for the terrestrial compartment

ΕU

Normal value in fresh water		0,18
Normal value in marine water		0,018
Normal value for fresh water sediment		0,981
Normal value for marine water sediment		0,0981
Normal value of STP microorganisms		35.6

пе	lealth - Derived no-effect level - DNEL / DMEL												
		Effects on co	nsumers.	Effects on workers									
	Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic				
	Oral.			3,4 mg/kg	VND								
	Inhalation.	859.7 mg/m3	859.7 mg/m3	12 mg/m3	VND	960 mg/m3	960 mg/m3	480 mg/m3	480 mg/m3				
	Skin.			VND	3,4 mg/kg			VND	7 mg/kg				

Ethyl acetate

Threshold Limit Value.											
	Type	Country	Country TWA/8h			STEL/15min					
			mg/m3	ppm	mg/m3	ppm					
	OEL	EU		200		400					
	TLV		1500	400							
P	Predicted no-effect concentration - PNEC.										
	Normal value for	the terrestr		0.24		ma/ka					

Normal value for the terrestrial compartment

Normal value for the terrestrial compartment	0,24	mg/kg
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 of STP microorganisms	650	mg/l

Health - Derived no-effect level - DNEL / DMEL

Country

Type

	Effects on co	nsumers.			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation.	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3	
Skin.			VND	37 mg/kg			VND	63 mg/kg	

Ethylbenzene Threshold Limit Value. TWA/8h

		mg/m3	ppm	mg/m3	ppm				
OEL	EU	442	100	884	200	SKIN			
Predicted no-effect	concentra	ation - PNE	C.						
Normal value for t	he terrest	rial compar	tment				2,68	mg/kg	
Normal value in fr	esh water						0,1	mg/l	
Normal value in m	narine wat	er					0,01	mg/l	
Normal value for f	fresh wate	r sediment					13,7	mg/l	
Health - Derived no-	effect lev	el - DNEL /	DMEL						
	Effe	cts on cons	umers.			Effects o	n workers		
Pouto of exposure	Δ Δ Δ L I	to A	cuto	Chronic	Chronic	Acuto	Acuto	Chronic	Chronic

STEL/15min

	Effects on co	nsumers.			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation.					293 mg/m3	VND	VND	77 mg/m3	
Skin.							VND	180 mg/kg/d	





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SECTION 8. Exposure controls/personal protection.

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 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.

FYF PROTECTION

Appearance

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.

liquid

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Colour black Odour characteristic Not available. Odour threshold. pH. Not available. Melting point / freezing point. Not available. Initial boiling point. 100 °C: Boiling range. Not available. Flash point. 21 °C. Evaporation Rate Not available. Flammability of solids and gases Not available. Not available Lower inflammability limit. Upper inflammability limit. Not available. Not available. Lower explosive limit. Upper explosive limit. Not available. Vapour pressure. Not available. Vapour density > 1.0000 Relative density. 1,51 Kg/l partially soluble Solubility Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available. Decomposition temperature. Not available. Viscosity Not available. Not available. Explosive properties

Oxidising properties **9.2. Other information.**

VOC (Directive 1999/13/EC): 23,55 % - 355,60 g/litre.

Not available.





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SECTION 9. Physical and chemical properties./>

VOC (volatile carbon): 19,36 % - 292,32 g/litre.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

ETHYL ACETATE: decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

N-BUTYL ACETATE: decomposes readily with water, especially when warm.

BUTANONE: reacts with light metals like aluminium, and with strong oxidising agents; attacks various types of plastic. Decomposes under the effect of heat.

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the 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.

ETHYL ACETATE: risk of explosion on contact with: metals, alkalis, hydrides oleum can react violently with: fluoride, strong oxidising agents, chlorosulfuric acid, potassium tert-butoxide. Forms explosive mixtures with the air.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

BUTANONE: may generate peroxides on contact with air, light or oxidising agents. Risk of explosion on contact with: hydrogen peroxide and sulphuric acid. It may react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

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

ETHYL ACETATE: avoid exposure to light, sources of heat and naked flames.

N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

BUTANONE: avoid exposure to sources of heat.

10.5. Incompatible materials.

ETHYL ACETATE: acids and bases, strong oxidising agents; aluminium and some plastics, nitrates and chlorosulphuric acid.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

BUTANONE: strong oxidising agents, inorganic acids, ammonia, copper and chloroform.

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: methane, styrene, hydrogen, ethane.

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: inhalation and cutaneous absorption of this product are harmful. This product may irritate mucosas, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause health problems (stomach pain, nausea, sickness, diarrhoea).

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

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





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SECTION 11. Toxicological information. />>

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

Ethylbenzene

 LD50 (Oral).
 3500 mg/kg Rat

 LD50 (Dermal).
 17800 mg/kg Rabbit

 LC50 (Inhalation).
 17,6 mg/l/4h Rat

Xylene, mixture of isomers with ethylbenzene

 LD50 (Oral).
 3523 mg/kg Rat

 LD50 (Dermal).
 12126 mg/kg Rabbit

 LC50 (Inhalation).
 27124 mg/m3 Rat

Ethyl acetate

 LD50 (Oral).
 4100 mg/kg rat

 LD50 (Dermal).
 > 20000 mg/kg rabbit

 LC50 (Inhalation).
 22,5 mg/l/6h rat

n-butyl acetate

LD50 (Oral). > 10000 mg/kg Rat LD50 (Dermal). > 14000 mg/kg Rabbit LC50 (Inhalation). > 21,1 mg/l/4h Rat

Butanone

 LD50 (Oral).
 > 2193 mg/kg Rat

 LD50 (Dermal).
 > 5000 mg/kg Rabbit

 LC50 (Inhalation).
 32000 mg/m3/4h Mouse

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

Ethylbenzene

LC50 - for Fish. 48,5 mg/l/96h Fish

Ethyl acetate

LC50 - for Fish.230 mg/l/96h FishEC50 - for Crustacea.260 mg/l/48h DaphniaEC50 - for Algae / Aquatic Plants.> 100 mg/l/72h Algae

n-butyl acetate

LC50 - for Fish. 18 mg/l/96h Fish EC50 - for Crustacea. 44 mg/l/48h Daphnia

Butanone

LC50 - for Fish. 2993 mg/l/96h Fish EC50 - for Crustacea. 308 mg/l/48h Daphnia

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

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 greater than 0,1%.





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

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.

Avoid littering. Do not contaminate soil, sewers and waterways.

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.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Maximum quantity:

Road and rail transport:

ADR/RID Class: 3 UN: 1263

Packing Group:

Label:
3
Nr. Kemler:
33
Limited Quantity.
5 L
Tunnel restriction code.

(D/E)

Proper Shipping Name: PAINT or PAINT RELATED MATERIAL

Special Provision: 640C

Carriage by sea (shipping):

IMO Class: 3 UN: 1263

Packing Group: II Label: 3

EMS: F-E , $\underline{S-E}$

Marine Pollutant. NO
Proper Shipping Name: PAINT or PAINT RELATED MATERIAL

Transport by air:

Cargo:

IATA: 3 UN: 1263

Packing Group: II Label: 3

Packaging instructions: 364

Pass.:
Packaging instructions: 353 Maximum quantity: 5 L

Special Instructions: A3, A72

Proper Shipping Name: PAINT or PAINT RELATED MATERIAL

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

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. 7

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

Product.

Point. 3 - 40







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SECTION 15. Regulatory information. .../>>

Substances in Candidate List (Art. 59 REACH).

None

Substances subject to authorisarion (Annex XIV REACH).

None

Substances subject to exportation reporting pursuant to (EC) Reg. 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 (VwVwS 2005).

WGK 3: Severe hazard to waters

15.2. Chemical safety assessment.

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:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Acute Tox. 4 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

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H312Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

R10 FLAMMABLE.

R11 HIGHLY FLAMMABLE. R20 HARMFUL BY INHALATION.

R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.

R36 IRRITATING TO EYES. R38 IRRITATING TO SKIN.

R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

R67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

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



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

- 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 (EC) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. 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:

01/02/03/06/08/09/10/11/12/14/15.