

SAFETY DATA SHEET

Polyurethane Floor Varnish

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

1.1 Product identifier

Product name

: Polyurethane Floor Varnish

Product description

: Varnish.

Product type

: Liquid.

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

Identified uses			
Industrial uses Consumer uses Professional uses			
	Uses advised against		Reason
None identified.			-

1.3 Details of the supplier of the safety data sheet

Blackfriar Paints Ltd Portobello Industrial Estate Birtley County Durham United Kingdom DH3 2RE Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125

e-mail address of person : rpmeurohas@ro-m.com responsible for this SDS

1.4 Emergency telephone number

<u>Supplier</u>	
Telephone number	: +44 (0) 207 858 1228
Hours of operation	: 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms		
Signal word	:	Warning
Hazard statements		Flammable liquid and vapour. May cause drowsiness or dizziness.
Precautionary statements		
General	:	P102 - Keep out of reach of children. P103 - Read label before use. P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	 P210 - Keep away from heat, sparks, open flames and hot surfaces No smoking. P261 - Avoid breathing vapour. P271 - Use only outdoors or in a well-ventilated area.
Response	:	P302 - IF ON SKIN: P361 - Take off immediately all contaminated clothing. P353 - Rinse skin with water or shower. P312 - Call a doctor if you feel unwell.
Storage	:	P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics
Supplemental label elements	1	Repeated exposure may cause skin dryness or cracking.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
UFI Code	:	CSTA-3JGT-5NJX-3SVW
Special packaging requirem	ien	its
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	<u>Classification</u> Regulation (EC) No. 127		Туре
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SECTION 3: Composition/information on ingredients

1		1	1	[
hydrocarbons, C9-C11,	REACH #:	≥25 - ≤50	Flam. Liq. 3, H226	[1] [2]
n-/ iso-/ cyclo-alkanes,	01-2119463258-33		STOT SE 3, H336	
< 2% aromatics	EC: 919-857-5		Asp. Tox. 1, H304	
	Index: 649-327-00-6		EUH066	
hydrocarbons,	REACH #:	≤3	Asp. Tox. 1, H304	[1] [2]
C11-C14, n-/ iso-/	01-2119456620-43		EUH066	
cyclo-alkanes,	EC: 265-149-8			
aromatics (2-25%)	CAS: 64742-47-8			
	Index: 649-422-00-2			
2-ethylhexanoic acid,	REACH #:	≤1	Repr. 2, H361fd (Fertility and Unborn	[1] [2]
zirconium salt	01-2119979088-21		child)	
	EC: 245-018-1			
	CAS: 22464-99-9			
			See Section 16 for the full text of the	
			H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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SECTION 4: First aid measures

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immed	iate medical attention and special treatment needed

Notes to physician	reat symptomatically. Contact poison treatment specialist imme uantities have been ingested or inhaled.	diately if large
Specific treatments	lo specific treatment.	

See toxicological information (Section 11)

SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Recommended: alcohol-resistant foam, CO₂, powders, water spray. media **Unsuitable extinguishing** : Do not use water jet. media 5.2 Special hazards arising from the substance or mixture : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. Hazards from the In a fire or if heated, a pressure increase will occur and the container may burst, substance or mixture with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Hazardous thermal Decomposition products may include the following materials: carbon dioxide decomposition products carbon monoxide metal oxide/oxides 5.3 Advice for firefighters **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without for fire-fighters suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. : Fire-fighters should wear appropriate protective equipment and self-contained **Special protective** breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for

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chemical incidents.

SECTION 5: Firefighting measures

Additional information : No unusual hazard if involved in a fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth

and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other : sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling	 Prevent the creation of flammable o avoid vapour concentrations higher In addition, the product should only other sources of ignition have been protected to the appropriate standar Mixture may charge electrostatically from one container to another. Operators should wear antistatic for conducting type. Keep away from heat, sparks and fla Avoid contact with skin and eyes. Av mist arising from the application of t sanding. Eating, drinking and smoking should handled, stored and processed. Put on appropriate personal protection Never use pressure to empty. Contact Always keep in containers made from 	than the occupational be used in areas from excluded. Electrical e rd. r always use earthing otwear and clothing ar ame. No sparking too void the inhalation of o his mixture. Avoid inh d be prohibited in area ive equipment (see Se ainer is not a pressure	I exposure limits. which all naked lights equipment should be leads when transferrir nd floors should be of t ls should be used. dust, particulates, spra alalation of dust from as where this material i ection 8).	and ng he y or
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SECTION 7: Handling and storage

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

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

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000	50000

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 850 mg/m ³ , (as turpentine (150 ppm)) 15 minutes. Form: Vapour TWA: 566 mg/m ³ , (as turpentine (100 ppm)) 8 hours. Form: Vapour	
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	•	
2-ethylhexanoic acid, zirconium salt	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 10 mg/m³, (as Zr) 15 minutes. TWA: 5 mg/m³, (as Zr) 8 hours.	
Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectivened of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such the following: European Standard EN 689 (Workplace atmospheres - Guidance f the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedure for the measurement of chemical agents) Reference to national guidance		

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SECTION 8: Exposure controls/personal protection

documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	871 mg/m ³	Workers	Systemic
	DNEL	Long term Oral, Dermal	125 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	185 mg/m³	Consumers	Systemic

PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	:	Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
Individual protection measu	Ire	<u>S</u>
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses with side-shields. (EN 166)
Skin protection		

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: > 8 hours (breakthrough time): nitrile rubber (0.5mm)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

EN 374

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

SECTION 8: Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres. (EN 1149-1)
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter (EN 140)
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	quid.	
Colour	nber.	
Odour	/drocarbon.	
Odour threshold	ot available.	
рН	ot available.	
Melting point/freezing point	ot available.	
Initial boiling point and boiling range	ot available.	
Flash point	osed cup: 42°C	
Evaporation rate	ot available.	
Flammability (solid, gas)	ammable in the presence of the following materials or conditions: oper arks and static discharge, heat and shocks and mechanical impacts.	n flames,
Upper/lower flammability or explosive limits	ower: 0,6% oper: 8%	
Vapour pressure	ot available.	
Vapour density	[Air = 1]	
Relative density	87 to 0,89	
Solubility(ies)	soluble in the following materials: cold water and hot water.	
Partition coefficient: n-octanol/ water	ot available.	
Auto-ignition temperature	ot available.	
Decomposition temperature	ot available.	
Viscosity	/namic (room temperature): 400 mPa·s nematic (40°C): >0,205 cm²/s	
Explosive properties	on-explosive in the presence of the following materials or conditions: o mes, sparks and static discharge, heat and shocks and mechanical in	
Oxidising properties	ot available.	

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SECTION 9: Physical and chemical properties

9.2 Other information

No additional information.

 10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients. 10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7). 10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur. 10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. 10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. 		,	
 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid When exposed to high temperatures may produce hazardous decomposition products. 10.5 Incompatible materials Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. 	10.1 Reactivity	No specific test data related to reactivity	available for this product or its ingredients.
 hazardous reactions 10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products. 10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. 	10.2 Chemical stability	Stable under recommended storage and	I handling conditions (see Section 7).
10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	-	Under normal conditions of storage and	use, hazardous reactions will not occur.
oxidising agents, strong alkalis, strong acids.	10.4 Conditions to avoid		y produce hazardous decomposition
	10.5 Incompatible materials		
10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.	10.6 Hazardous decomposition products	should not be produced. If involved in a f	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	LD50 Dermal Rabbit >5000 mg/kg -			
	LD50 Oral	Rat	>6312 mg/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Conclusion/Summary	nary : Based on available data, the classification criteria are not met.			

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	Eyes - Cornea opacity	Rabbit	1	-	-
Conclusion/Summary					

oonolasion, oanniary	
Skin	: Based on available data, the classification criteria are not met.
Eyes	: Based on available data, the classification criteria are not met.
Respiratory	: May cause drowsiness or dizziness.
Sensitisation	

SECTION 11: Toxicological information

	logioai inioi		
Product/ingredient name	Route of exposure	Species	Result
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	skin	Rabbit	Not sensitizing
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	skin	Rabbit	Not sensitizing

Conclusion/Summary

Skin

Based on available data, the classification criteria are not met.Based on available data, the classification criteria are not met.

Respiratory Mutagenicity

Product/ingredient name	Test	Experiment	Result
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	OECD 471	Experiment: In vivo Subject: Bacteria	Negative

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	Negative - Oral - TD	Rat	-	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	-	Negative	Negative	Rat	Oral	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/	Product/ingredient name		ılt	
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)		ASPIRATION HAZARD - (ASPIRATION HAZARD - (• •	
Delayed and immediate effect	ts as well as chronic effects from	short and long-term expos	<u>sure</u>	
<u>Short term exposure</u>				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
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SECTION 11: Toxicological information

Long term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Potential chronic health eff		
Not available.		
Conclusion/Summary	ased on available data, the classification criteria are not met.	
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking r dermatitis.	and/
Carcinogenicity	lo known significant effects or critical hazards.	
Mutagenicity	lo known significant effects or critical hazards.	
Teratogenicity	lo known significant effects or critical hazards.	
Developmental effects	lo known significant effects or critical hazards.	
Fertility effects	lo known significant effects or critical hazards.	
Other information	lot available.	

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

Product/ingredient name	Result	Species	Exposure
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0,23 mg/l	Daphnia spec.	-
	Chronic NOEC 0,131 mg/l	Fish	-
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	Acute EC10 >1000 mg/l	Daphnia spec.	48 hours
	Acute IC10 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 2200 μg/l Fresh water Acute LOAEL >1000 mg/l	Fish - Lepomis macrochirus Fish	4 days 96 hours

Conclusion/Summary Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	OECD 301B	>80 % - Readily - 28 days	-	-
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	OECD 301F -	>80 % - Readily - 28 days 69 % - Readily - 28 days	-	-

classification criteria are not met.

SECTION 12: Ecological information				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	-	100%; < 28 day(s) -	Readily Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	5 to 6.5	-	high
hydrocarbons, C11-C14, n-/ iso-/ cyclo-alkanes, aromatics (2-25%)	3.5 to 4.7	130 to 150	low
2-ethylhexanoic acid, zirconium salt	-	2,96	low

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Volatile.

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	1	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

SECTION 13: Disposal considerations

Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	UN1263	UN1263
14.2 UN proper shipping name	-	-	Paint.	Paint.
14.3 Transport hazard class(es)	-	-	3	3
14.4 Packing group	-	-	111	111
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Exempted according to 2.2.3.1.5 (Viscous substance exemption) This class 3 material is not subject to regulation in packagings up to 450 L.		Emergency schedules (EmS): F-E + <u>S-E</u> Viscous substance exemption This class 3 material can be considered non hazardous in packagings up to 30 L. Exempted according to 2.3.2.5 (Viscous substance exemption)	Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 355 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 366 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y 344

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

5.1 Safety, health and enviro	onmental regulations	/legislation specific	for the substance or i	mixture
EU Regulation (EC) No. 190	<u>7/2006 (REACH)</u>			
Annex XIV - List of substar	nces subject to autho	orisation		
Annex XIV				
None of the components ar	e listed.			
Substances of very high o	<u>concern</u>			
None of the components ar	e listed.			
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles				
Other EU regulations				
VOC			on VOC apply to this pr t for further information	
VOC for Ready-for-Use Mixture	: IIA/i. One-pack performance coatings. EU limit value for this product : 500 g/l (2010). This product contains a maximum of 500 g/l VOC.			
Europe inventory	ory : All components are listed or exempted.			
Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
2-ethylhexanoic acid, zirconium salt	-	-	Repr. 2, H361d (Unborn child)	Repr. 2, H361f (Fertility)

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category					
P5c					
	own assess legislation.	tion contained in this saf ment of workplace risks, The provisions of the nat f this product at work.	as required by other	r health and safe	ty
References	Conforms to	Vorkplace exposure limit Regulation (EC) No. 190 EU) No. 2016/918		nnex II, as amen	ded by
International regulations					
Chemical Weapon Conve	ntion List Schedu	ules I, II & III Chemicals			
Not listed.					
Montreal Protocol (Annex	<u>kes A, B, C, E)</u>				
Not listed.					
Stockholm Convention o	n Persistent Orga	nic Pollutants			
Not listed.	<u> </u>				
Rotterdam Convention o	n Prior Informed (<u>Consent (PIC)</u>			
Not listed.					
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SECTION 15: Regulatory information

	col on POPs and Heavy Metals
Not listed.	
CN code : 3208	3 90 91
International lists	
National inventory	
Australia	: Not determined.
Canada	: Not determined.
China	: At least one component is not listed.
Japan	: Japan inventory (ENCS): At least one component is not listed. Japan inventory (ISHL): At least one component is not listed.
Malaysia	: Not determined.
New Zealand	: At least one component is not listed.
Philippines Republic of Korea	Not determined.Not determined.
Taiwan	: At least one component is not listed.
Turkey	: Not determined.
United States	: Not determined.
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	Expert judgment
STOT SÉ 3, H336	Expert judgment

Full text of H-phrases referred to in sections 2 and 3

Full text of abbreviated H : statements	H226 H304 H336 H361fd	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Suspected of damaging fertility. Suspected of damaging the unborn child.
Full text of classifications : [CLP/GHS]	Asp. Tox. 1, H304 EUH066 Flam. Liq. 3, H226 Repr. 2, H361fd STOT SE 3, H336	ASPIRATION HAZARD - Category 1 Repeated exposure may cause skin dryness or cracking. FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

SECTION 16: Other information

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Notice to reader

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.