SAFETY DATA SHEET

Date of issue/Date of revision

. .

: 21 November 2016 Version



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

Product name	: SIGMADUR 550 BASE	
Product code	: 00315168	
Other means of identification	: Not available.	
1.2 Relevant identified us	es of the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
1.3 Details of the supplie	of the safety data sheet	
PPG Coatings SPRL/BVB	Α	
Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-3360631 Fax +32-33606435		
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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 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412

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

ode : 0031516 IGMADUR 550 BASE	Date of issue/Date of revision : 21 November 2016
SECTION 2: Haz	ards identification
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Flammable liquid and vapour. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary stateme	ents de la constante de la const
Prevention	 Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: Not applicable.
Hazardous ingredients	s : xylene
Supplemental label elements	: Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.
Annex XVII - Restriction on the manufacture, placing on the market use of certain dangero substances, mixtures articles	and bus
Special packaging reg	uirements
Containers to be fitte with child-resistant fastenings	
Tactile warning of da	inger : Not applicable.

Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation. **not result in classification**

SECTION 3: Composition/information on ingredients

English (GB)	l lucito d	Kingdom (UK)		2/1
Product/ingredient name	Identifiers	% by weight	Regulation (EC) No. 1272/2008 [CLP]	Туре
			Classification	
2 Mixtures : N	lixture			

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SECTION 3: Comp	osition/information on ingr	redients		
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤46	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (central nervous system (CNS), kidneys, liver) Asp. Tox. 1, H304	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1] [2]
2-methoxy-1-methylethyl ac	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7		Flam. Liq. 3, H226	[2]
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	EC: 255-437-1 CAS: 41556-26-7	≤0.30	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared	[1] [2]

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

above.

Туре

[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

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

SUB codes represent substances without registered CAS Numbers.

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SECTION 4: First aid measures

4.1 Description of first aid measures

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

	iptomo una cricoto, both doute una delayea
Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed.
The exposed person may need to be kept under medical surveillance for 48 hours.Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

-	-
Hazards from the substance or mixture	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire- fighters	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 suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure 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 chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

explosion-proof ed sewers, water cou effluent treatment combustible, abso and place in conta	water-insoluble, absorb with an inert dry material and place in an disposal container. Dispose of via a licensed waste disposal at risk. Move containers from spill area. Use spark-proof tools and quipment. Approach the release from upwind. Prevent entry into rses, basements or confined areas. Wash spillages into an plant or proceed as follows. Contain and collect spillage with non- orbent material e.g. sand, earth, vermiculite or diatomaceous earth ainer for disposal according to local regulations. Dispose of via a sposal contractor. Contaminated absorbent material may pose the
Large spill : Stop leak if withou	water-insoluble, absorb with an inert dry material and place in an disposal container. Dispose of via a licensed waste disposal
explosion-proof ed Alternatively, or if appropriate waste contractor.	t risk. Move containers from spill area. Use spark-proof tools and quipment. Dilute with water and mop up if water-soluble.
6.3 Methods and material for containment and cle	aning up
precautions and sewers. Infor pollution (sewers,	spilt material and runoff and contact with soil, waterways, drains m the relevant authorities if the product has caused environmental waterways, soil or air). Water polluting material. May be harmful t if released in large quantities.
information in Sec	ning is required to deal with the spillage, take note of any tion 8 on suitable and unsuitable materials. See also the non-emergency personnel".
personnel Evacuate surroun entering. Do not t No flares, smokin Provide adequate	taken involving any personal risk or without suitable training. ding areas. Keep unnecessary and unprotected personnel from ouch or walk through spilt material. Shut off all ignition sources. g or flames in hazard area. Avoid breathing vapour or mist. ventilation. Wear appropriate respirator when ventilation is in appropriate personal protective equipment.

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SECTION 6: Accidental release measures

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.

same hazard as the spilt product.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
7.3 Specific end use(s) Recommendations	: Not available.

Industrial sector specific solutions

: Not available.

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 548 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 274 mg/m ³ 8 hours.
taluana	TWA: 50 ppm 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	product contains ingredients with exposure limits, personal, workplace
	sphere or biological monitoring may be required to determine the effectiveness
	ventilation or other control measures and/or the necessity to use respiratory
	ctive equipment. Reference should be made to monitoring standards, such as
	llowing: European Standard EN 689 (Workplace atmospheres - Guidance for
	sessment of exposure by inhalation to chemical agents for comparison with
	alues and measurement strategy) European Standard EN 14042 (Workplace
	spheres - Guide for the application and use of procedures for the assessment of
	ure to chemical and biological agents) European Standard EN 482
	place atmospheres - General requirements for the performance of procedure
	e measurement of chemical agents) Reference to national guidance
	nents for methods for the determination of hazardous substances will also be
require	ed.
DNELs	

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SECTION 8: Exposure controls/personal protection

Туре	Exposure	Value	Population	Effects
DNEL	Short term	289 mg/m³	Workers	Systemic
	Inhalation			
DNEL	Short term	289 mg/m ³	Workers	Local
	Inhalation			
DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	-	bw/day		
DNEL	Long term	77 mg/m³	Workers	Systemic
	Inhalation	_		
DNEL	Short term	174 mg/m³	Consumers	Systemic
	Inhalation	_		
DNEL	Short term	174 mg/m ³	Consumers	Local
	Inhalation	_		
DNEL	Long term Dermal	108 mg/kg	Consumers	Systemic
		bw/day		-
DNEL	Long term	14.8 mg/m ³	Consumers	Systemic
	Inhalation	_		
DNEL	Long term Oral	1.6 mg/kg	Consumers	Systemic
		bw/day		
DNEL	Long term	480 mg/m ³	Workers	Systemic
	Inhalation	_		
DNEL	Short term	960 mg/m ³	Workers	Systemic
	Inhalation			
DNEL	Long term	480 mg/m ³	Workers	Local
	Inhalation			
DNEL	Short term	960 mg/m ³	Workers	Local
	Inhalation			
DNEL			Consumers	Systemic
DNEL			Consumers	Systemic
DNEL			Consumers	Local
DNEL			Consumers	Local
		m³		
DNEL		275 mg/m³	Workers	Systemic
DNEL	Long term Dermal		Workers	Systemic
DNFI	Long term Oral		Consumers	Systemic
				Systemic
		55 mg/m	Consumers	0,0001110
1	Long term Dermal	54.8 mg/kg	Consumers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELShort term InhalationDNELShort term InhalationDNELLong term DermalDNELLong term DermalDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term DermalDNELLong term OralDNELLong term OralDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term 	DNELShort term Inhalation289 mg/m³DNELShort term Inhalation289 mg/m³DNELLong term Dermal180 mg/kg bw/dayDNELLong term Dermal180 mg/kg bw/dayDNELShort term Inhalation174 mg/m³DNELShort term Inhalation174 mg/m³DNELShort term Inhalation174 mg/m³DNELShort term Inhalation108 mg/kg bw/dayDNELLong term Dermal108 mg/kg bw/dayDNELLong term Dermal108 mg/kg bw/dayDNELLong term Oral1.6 mg/kg bw/dayDNELLong term Oral1.6 mg/kg bw/dayDNELLong term Oral1.6 mg/kg bw/dayDNELLong term Inhalation960 mg/m³DNELShort term Inhalation960 mg/m³DNELLong term Inhalation102.34 mg/ m³DNELShort term Inhalation960 mg/m³DNELLong term Inhalation102.34 mg/ m³DNELLong term Inhalation102.34 mg/ m³DNELLong term Inhalation275 mg/m³DNELLong term Inhalation153.5 mg/ kgDNELLong term Oral1.67 mg/kg 33 mg/m³	DNELShort term Inhalation289 mg/m³WorkersDNELShort term Inhalation289 mg/m³WorkersDNELLong term Dermal180 mg/kg bw/dayWorkersDNELLong term Inhalation174 mg/m³WorkersDNELShort term Inhalation174 mg/m³ConsumersDNELShort term Inhalation174 mg/m³ConsumersDNELShort term Inhalation108 mg/kg bw/dayConsumersDNELLong term Dermal108 mg/kg bw/dayConsumersDNELLong term Dermal108 mg/kg bw/dayConsumersDNELLong term Oral1.6 mg/kg bw/dayConsumersDNELLong term Oral1.6 mg/kg bw/dayConsumersDNELLong term Oral1.6 mg/kg bw/dayWorkersDNELLong term Inhalation960 mg/m³WorkersDNELShort term Inhalation960 mg/m³WorkersDNELLong term Inhalation102.34 mg/ m³ConsumersDNELShort term Inhalationm³ConsumersDNELShort term Inhalationm³ConsumersDNELShort term Inhalationm³ConsumersDNELLong term Inhalation153.5 mg/ m³WorkersDNELLong term Dermal Inhalation153.5 mg/ m³WorkersDNELLong term Dermal Inhalation153.5 mg/ m³Workers

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
xylene	-	Fresh water	0.327 mg/l	-
-	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment	6.58 mg/l	-
		Plant	-	
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
n-butyl acetate	-	Fresh water	0.18 mg/l	-
	-	Marine water	0.018 mg/l	-
	-	Fresh water sediment	0.981 mg/kg	-
English (GB)		United Kingdom (Uk	0	

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SECTION	SECTION 8: Exposure controls/personal protection				
		-	Marine water sediment	0.0981 mg/kg	-

			00		
	-	Sewage Treatment	35.6 mg/l	-	l
		Plant			l
	-	Soil	0.0903 mg/kg	-	l
2-methoxy-1-methylethyl acetate	-	Fresh water	0.635 mg/l	-	l
	-	Marine water	0.0635 mg/l	-	l
	-	Fresh water sediment	3.29 mg/kg	-	l
	-	Marine water sediment	0.329 mg/kg	-	l
	-	Soil	0.29 mg/kg	-	I
	-	Sewage Treatment	100 mg/l	-	l
		Plant			l

8.2 Exposure controls		
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering control also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	ols
Individual protection measu	res	
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 clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	: Chemical splash goggles.	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard shoul be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimat When prolonged or frequently repeated contact may occur, a glove with a protectic class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended.	es r, ced. on s
Gloves	: For prolonged or repeated handling, use the following type of gloves: May be used: Chloroprene, nitrile rubber, polyvinyl alcohol (PVA), Viton®, butyl rubber	
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.	I
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.	
English (GB)	United Kingdom (UK) 9/	/17

<mark>Code</mark> SIGMADUF	: 00315168 R 550 BASE	Date of issue/Date of revision	: 21 November 2016			
SECTIC	SECTION 8: Exposure controls/personal protection					

Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Filter type: organic vapour (Type A) and particulate filter P3
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	9.1 Information on basic physical and chemical properties			
<u>Appearance</u>				
Physical state	;	Liquid.		
Colour	:	Orange.		
Odour	1	Not available.		
Odour threshold	1	Not available.		
рН	1	insoluble in water.		
Melting point/freezing point	:	May start to solidify at the following temperature: -66°C (-86.8°F) This is based on data for the following ingredient: 2-methoxy-1-methylethyl acetate. Weighted average: -92.82°C (-135.1°F)		
Initial boiling point and boiling range	1	>37.78°C		
Flash point	:	Closed cup: 25°C		
Evaporation rate	:	Fighest known value: 1 (n-butyl acetate) Weighted average: 0.81compared with butyl acetate		
Material supports combustion.	:	Yes.		
Flammability (solid, gas)	:	liquid		
Upper/lower flammability or explosive limits	1	Lower: 0.87% Upper: 5.8%		
Vapour pressure	:	Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.97 kPa (7.28 mm Hg) (at 20°C)		
Vapour density	;	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.82 (Air = 1)		
Relative density	:	1.32		
Solubility(ies)	1	Insoluble in the following materials: cold water.		
Partition coefficient: n-octanol/ water	1	Not applicable.		
Auto-ignition temperature	:	Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate).		
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).		
Viscosity	:	Kinematic (room temperature): >4 cm²/s Kinematic (40°C): >0.21 cm²/s		
Explosive properties	÷	Product does not present an explosion hazard.		
Oxidising properties	;	Product does not present an oxidizing hazard.		

9.2 Other information

No additional information.

English (GB)

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SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
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. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Vinder normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
-	LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LC50 Inhalation Vapour	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	636 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value	
	4032.7 mg/kg 34.24 mg/l	

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	: Not available.				
Sensitisation					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicity	v (single exposure)				

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
n-butyl acetate toluene	Category 3 Category 3		Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2	Not determined	central nervous system (CNS), kidneys and liver
ethylbenzene toluene	Category 2 Category 2	Not determined Not determined	hearing organs Not determined

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on likely : Not available. routes of exposure

Potential acute health	<u>effects</u>	
Inhalation	: May cause respiratory irritation.	
Ingestion	: No known significant effects or critical hazards.	
Skin contact	: Causes skin irritation. Defatting to the skin.	
Eye contact	: Causes serious eye irritation.	
Symptoms related to the	he physical, chemical and toxicological characteristics	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing	
Ingestion	: No specific data.	
English (GB)	United Kingdom (UK)	

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United Kingdom (UK)	

United Kingdom (UK)		
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Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	<u>cts</u>	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe		
Not available.		-
Conclusion/Summary	:	Not available.
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	4	Not available.

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.

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.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Conclusion/Summary	: Not available.		

12.2 Persistence and degradability

Conclusion/Summary	1	Not available.
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene toluene	- - -	- -	Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
ethylbenzene	3.15	79.43	low
2-methoxy-1-methylethyl acetate	0.56	-	low
toluene	2.73	8.32	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
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.
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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

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 a any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed untreated to the sewer unless fully compliant with the requirements of all authoriti with jurisdiction.	and e l of ies
<u>Product</u>		

En	glish (GB)	United Kingdom (UK)	14/17

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SECTION 13: Disposal considerations

Hazardous waste	: Yes.
Europoan wasto cataloguo	

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

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.

Type of packaging		European waste catalogue (EWC)
Container	15 01 06	mixed packaging
Special precautions	taken when Empty conta residues ma container. D thoroughly ir	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. hiners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the bo not cut, weld or grind used containers unless they have been cleaned hternally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: This class 3 material is not subject to regulation in packagings up to 450 L. Exempted according to 2.2.3.1.5 (Viscous substance exemption)
Tunnel code	: (D/E)
ADN	: The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
IATA	: None identified.

Special precautions for user : 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.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are 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

Product/ingredient name	Carcinogenic effects	•	Developmental effects	Fertility effects
toluene	-	-	Repr. 2, H361d (Unborn child)	-

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria	
Category	
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b 6: Flammable (R10)	

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

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English (GB)
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₩225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated	
	exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Full text of classifications [CLP/GHS		
	ACUTE TOXICITY (dermal) - Category 4	
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4	
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1	
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1	
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3	
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3	
Repr. 2, H361d	REPRODUCTIVE TOXICITY (Unborn child) - Category 2	
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1	
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSUR	
,	- Category 2	
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	
	(Respiratory tract irritation) - Category 3	
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	
0.0.0L0,10000	(Narcotic effects) - Category 3	

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Prepared by	: EHS
Version	: 13.01

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