SAFETY DATA SHEET

Date of issue/Date of revision

: 10 May 2024

Version : 1.09

PPG

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

1.1 Product identifier	
Product name	: DURETHANE DTM BLACK - A
Product code	: 00338131
Product type	: Liquid.
Other means of identification	: Not available.
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Industrial applications.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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 Hazard pictograms



Signal word

: Warning

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SECTION 2: Hazards identification		

Hazard statements		Flammable liquid and vapour.
nazaru statements	1	Causes skin irritation.
		May cause an allergic skin reaction.
		Causes serious eye irritation.
		Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour.
Response	:	Collect spillage.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P273, P261, P391, P501
Supplemental label elements	1	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
4 -chloro- α, α, α -trifluorotoluene	REACH #: 01-2119857280-40 EC: 202-681-1 CAS: 98-56-6	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤16	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≥5.0 - ≤10	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
heptan-2-one	REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0	≥1.0 - ≤3.2	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H336	[1] [2]
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SECTION 3: Composition/information on ingredients							
isobutyl isobutyrate	Index: 606-024-00-3 EC: 202-612-5 CAS: 97-85-8	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Aquatic Chronic 3, H412	[1]			
reaction mass of α-3-(3-(2H- benzotriazol- 2-yl)-5-tert-butyl- 4-hydroxyphenyl)propionyl-ω- hydroxypoly(oxyethylene) and α-3- (3-(2H-benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl)propionyl-ω 3-(3-(2H-benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene)		<1.0	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]			
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 EC: 915-687-0 CAS: 1065336-91-5	≤0.30	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]			
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0.30	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]			
2-hydroxyethyl methacrylate	EC: 212-782-2 CAS: 868-77-9 Index: 607-124-00-X	≤0.30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared	[1]			

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>

above.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed <u>Potential acute health effects</u>

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SECTION 4: First aid	measures
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. : No specific treatment.
SECTION 5: Firefigh	ting 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 f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic 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 oxides phosphorus oxides halogenated compounds carbonyl halides metal oxide/oxides
5.3 Advice for firefighters	
a a Auvice for firefighters	

Special protective actions 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.

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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 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. Eliminate all ignition sources. Separate from oxidising 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. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours.
heptan-2-one	TWA: 150 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	STEL: 475 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 237 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Product/ingredient name	Exposure indices

Recommended monitoring procedures: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
4 -chloro- α , α , α -trifluorotoluene	DNEL	Long term Oral	0.0005 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.0005 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.0013 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	8.8 µg/cm ²	General population	Local
	DNEL	Long term Dermal	0.017 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	17.6 µg/cm²	Workers	Local
	DNEL	Long term Inhalation	0.029 mg/m ³	Workers	Systemic
n-butyl acetate	DNEL	Long term Inhalation	300 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	11 mg/m³	Workers	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
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SECTION 8: Exposure controls/personal protection

	DNEL	Short term Inhalation	300 mg/m ³	General population	
	DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
heptan-2-one	DNEL	Long term Oral	23.32 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	23.32 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	54.27 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	84.31 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	394.25 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1516 mg/m³	Workers	Systemic
isobutyl isobutyrate	DNEL	Long term Oral	7.86 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	27.34 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	154.77 mg/m ³	Workers	Systemic
reaction mass of α-3-(3-(2H-	DNEL	Long term Inhalation	0.35 mg/m ³	Workers	Systemic
benzotriazol- 2-yl)-5-tert-butyl-		Ū			
4-hydroxyphenyl)propionyl-w-					
hydroxypoly(oxyethylene)					
and α-3- (3-(2H-benzotriazol-					
2-yl)-5-tert-butyl-					
4-hydroxyphenyl)propionyl-ω-					
3-(3-(2H-benzotriazol-2-yl)					
-5-tert-butyl-4-hydroxyphenyl)					
propionyloxypoly(oxyethylene)					
	DNEL	Long term Dermal	0.5 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	0.085 mg/m ³	General	Systemic
		5	5	population	,
				[Consumers]	
	DNEL	Long term Dermal	0.25 mg/kg	General	Systemic
		5	- 5.5	population	, -
				[Consumers]	
	DNEL	Long term Oral	0.025 mg/kg	General	Systemic
				population	2,2121110
				[Consumers]	
	DNEL	Long term Oral	0.025 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.025 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.085 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.35 mg/m ³	Workers	Systemic
2-hydroxyethyl methacrylate	DNEL	Long term Oral	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.39 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.45 mg/m ³	General population	Systemic
					Oysternic
	DNEL	Long term Inhalation	4.9 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail	
n-butyl acetate	Fresh water	0.18 mg/l	-	
	Marine water	0.018 mg/l	-	
	Fresh water sediment	0.981 mg/kg	-	
	Marine water sediment	0.0981 mg/kg	-	
	Sewage Treatment Plant		-	
	Soil	0.0903 mg/kg	-	
trizinc bis(orthophosphate)	Fresh water	20.6 µg/l	Sensitivity Distribution	
	Marine water	6.1 µg/l	Sensitivity Distribution	
	Sewage Treatment Plant	100 µg/l	Assessment Factors	
	Fresh water sediment	117.8 mg/kg dwt	Sensitivity Distribution	
	Marine water sediment	56.5 mg/kg dwt	Equilibrium Partitioning	
	Soil	35.6 mg/kg dwt	Sensitivity Distribution	
heptan-2-one	Fresh water	0.0982 mg/l	Assessment Factors	
	Marine water	0.00982 mg/l	Assessment Factors	
	Fresh water sediment	1.89 mg/kg	Equilibrium Partitioning	
	Marine water sediment	0.189 mg/kg	Equilibrium Partitioning	
English (GB) United Kingdom (UK) 7/17				

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	Sewage Treatment Plant 12.5 mg/l	Assessment Factors					

	Sewage Treatment Plant	12.5 mg/l	Assessment Factors
	Soil	0.321 mg/kg	Equilibrium Partitioning
reaction mass of α -3-(3-(2H-benzotriazol- 2-yl)	Fresh water	0.0023 mg/l	-
-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-		-	
hydroxypoly(oxyethylene) and α -3- (3-(2H-			
benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)			
propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-			
butyl-4-hydroxyphenyl) propionyloxypoly			
(oxyethylene)			
	Marine water	0.00023 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	3.06 mg/kg dwt	-
	Marine water sediment	0.306 mg/kg dwt	-
	Soil	2 mg/kg	-
zinc oxide	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Fresh water sediment	117 mg/kg dwt	Sensitivity Distribution
	Sewage Treatment Plant	52 µg/l	Assessment Factors
	Marine water sediment	56.5 mg/kg dwt	Assessment Factors
	Soil	35.6 mg/kg dwt	Sensitivity Distribution

8.2 Exposure controls		
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilar or other engineering controls to keep worker exposure to airborne contaminants be any recommended or statutory limits. The engineering controls also need to keep vapour or dust concentrations below any lower explosive limits. Use explosion-pro ventilation equipment.	elow gas,
Individual protection measure	<u>IS</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 clothin Contaminated work clothing should not be allowed out of the workplace. 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 worn at all times when handling chemical products if a risk assessment indicates t necessary. Considering the parameters specified by the glove manufacturer, chec 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 diffe glove manufacturers. In the case of mixtures, consisting of several substances, th protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommender (breakthrough time greater than 30 minutes according to EN 374) is recommender. 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 as included in the user's risk assessment.	this is ck erent ne ed. d. s
Gloves	: For prolonged or repeated handling, use the following type of gloves:	
	Recommended: Chloroprene, natural rubber (latex) May be used: butyl rubber, nitrile rubber	
Body protection	: Personal protective equipment for the body should be selected based on the task l 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 a static protective clothing. For the greatest protection from static discharges, clothi should include anti-static overalls, boots and gloves.	anti-

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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	: Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear a respirator conforming to EN140. 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. Mask type: full-face mask half-face mask Filter type: organic vapour filter (Type A) particulate filter P3 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
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

2

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Colour : Odour : Odour threshold : Melting point/freezing point : Initial boiling point and : boiling range :	data for (-113.1°	ilable. Irt to solidify the followin	0	nperature: <-20°C (<-4°F) This is based on n-2-one. Weighted average: -80.59°C
Odour : Odour threshold : Melting point/freezing point : Initial boiling point and : boiling range	Charact Not ava May sta data for (-113.1 [°] >37.78°	ilable. Irt to solidify the followin °F)	0	
Odour threshold : Melting point/freezing point : Initial boiling point and : boiling range	Not ava May sta data for (-113.1° >37.78°	ilable. Irt to solidify the followin °F)	0	
Melting point/freezing point : Initial boiling point and : boiling range	May sta data for (-113.1° >37.78°	rt to solidify the followin °F)	0	nperature: <-20°C (<-4°F) This is based on n-2-one. Weighted average: -80.59°C
Initial boiling point and : boiling range	data for (-113.1° >37.78°	the followin °F)	0	
boiling range		°C (>100°F)		
	liquid			
Flammability (solid, gas) :	nyuiu			
Upper/lower flammability or : explosive limits	Greates	st known ran	ige: Lower: 0.9% U	pper: 10.5% (4-chloro-α,α,α-trifluorotoluer
Flash point :	Closed	cup: 30.56°	C (87°F)	
Auto-ignition temperature :				
Ingredient name		°C	°F	Method
ethyl 3-ethoxypropionate		377	710.6	
pH :	Not app	licable.		
	Not app	licable. inso	luble in water.	
Viscosity :	Kinema	tic (40°C): >	21 mm²/s	
Solubility(ies) :				
Media	Resu	lt		
cold water	Not so	oluble		
Miscible with water :	No.			
Partition coefficient: n-octanol/ :		licable		

Vapour pressure

		Vapour Pressure at 20°C			Vapour pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	n-butyl acetate	11.25096	1.5	DIN EN 13016-2			
R	elative density	: 1.14					I

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Vapour density	: Highest known value: 4.97 (Air = 1) (isobutyl isobutyrate). Weighted average: 4.06 (Air = 1)					
Explosive properties	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.					
Oxidising properties Particle characteristics	: Product does not present an oxidizing hazard.					
Median particle size	: Not applicable.					

SECTION 10: Stability and reactivity : No specific test data related to reactivity available for this product or its ingredients. **10.1 Reactivity 10.2 Chemical stability** : The product is stable. **10.3 Possibility of** : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 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. : Depending on conditions, decomposition products may include the following **10.6 Hazardous** materials: carbon oxides phosphorus oxides halogenated compounds carbonyl decomposition products halides metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<mark>4</mark> -chloro-α,α,α-	LC50 Inhalation Vapour	Rat	33080 mg/m ³	4 hours
trifluorotoluene				
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 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	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and	Rat	>5.7 mg/l	4 hours
	mists		-	
	LD50 Oral	Rat	>5000 mg/kg	-
heptan-2-one	LC50 Inhalation Vapour	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
isobutyl isobutyrate	LD50 Dermal	Rabbit	>8600 mg/kg	-
	LD50 Oral	Rat	12.8 g/kg	-
reaction mass of α-3-(3-(2H-	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
benzotriazol- 2-yl)-5-tert-		Female		
butyl-4-hydroxyphenyl)				
propionyl-ω-hydroxypoly				
(oxyethylene) and α -3- (3-				
(2H-benzotriazol-2-yl)-5-tert-				
butyl-4-hydroxyphenyl)				
propionyl-ω-3-(3-(2H-				
benzotriazol-2-yl)-5-tert-				
butyl-4-hydroxyphenyl)				
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•	-			
propionyloxypoly (oxyethylene)				
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Reaction mass of bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Dermal	Rat	>3170 mg/kg	-
	LD50 Oral	Rat - Male, Female	3230 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5050 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
DURETHANE DTM BLACK - A 4-chloro-α,α,α-trifluorotoluene n-butyl acetate heptan-2-one isobutyl isobutyrate	64899.1 13000 10768 1600 12800	N/A N/A N/A 10206 N/A	N/A N/A N/A N/A	677.4 33.08 N/A 16.7 N/A	N/A N/A N/A N/A
Reaction mass of bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 2-hydroxyethyl methacrylate	3230 5050	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Irritation/Corrosion

Conclusion/Summary	: Not available.
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	<u>city (single exposure)</u>

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Product/ingredient name	Category	Route of exposure	Target organs
4-chloro- α , α , α -trifluorotoluene	Category 3	-	Respiratory tract irritation
n-butyl acetate heptan-2-one	Category 3 Category 3	- -	Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes : Not available.

of exposure

Eye contact

Inhalation

Potential acute health effects

 Calleas	coriouc		irritation.
 Causes	SCHOUS	CYC	inniaion.

- : No known significant effects or critical hazards.
- : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. **Skin contact**
- Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute LC50 0.112 mg/l	Fish	96 hours
	Chronic NOEC 0.026 mg/l	Fish	30 days
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
reaction mass of α -3-(3-(2H- benzotriazol- 2-yl)-5-tert- butyl-4-hydroxyphenyl) propionyl- ω -hydroxypoly (oxyethylene) and α -3- (3- (2H-benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl) propionyl- ω -3-(3-(2H- benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl)	Chronic NOEC 0.78 mg/l	Daphnia	21 days
oropionyloxypoly (oxyethylene)			
(0,yetrijiene) Reaction mass of bis (1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	EC50 1.68 mg/l	Algae	72 hours
	LC50 0.9 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water	Algae Daphnia - Water flea - <i>Daphnia</i> <i>magna</i> - Neonate	72 hours 48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
heptan-2-one	OECD 310	69 % - Readily - 28 days	-	-
reaction mass of α-3-(3-(2H-	OECD 301B	12 % - 28 days	-	-
benzotriazol- 2-yl)-5-tert-	Ready			
butyl-4-hydroxyphenyl)	Biodegradability -			
propionyl-ω-hydroxypoly	CO2 Evolution			
(oxyethylene) and α-3- (3-	Test			
(2H-benzotriazol-2-yl)-5-tert-				
butyl-4-hydroxyphenyl)				
propionyl-ω-3-(3-(2H-				
benzotriazol-2-yl)-5-tert-				
butyl-4-hydroxyphenyl)				
propionyloxypoly				
(oxyethylene)				

Conclusion/Summary : Not available.

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate	-	-	Readily
heptan-2-one	-	-	Readily
reaction mass of α-3-(3-(2H-	-	-	Not readily
benzotriazol- 2-yl)-5-tert-			-
butyl-4-hydroxyphenyl)			
propionyl-ω-hydroxypoly			
(oxyethylene) and α-3- (3-			
(2H-benzotriazol-2-yl)-5-tert-			
butyl-4-hydroxyphenyl)			
propionyl-ω-3-(3-(2H-			
benzotriazol-2-yl)-5-tert-			
butyl-4-hydroxyphenyl)			
propionyloxypoly			
(oxyethylene)			

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	Low
heptan-2-one	2.26	-	Low
reaction mass of α-3-(3-(2H-	5.9	-	High
benzotriazol- 2-yl)-5-tert-			_
butyl-4-hydroxyphenyl)			
propionyl-ω-hydroxypoly			
(oxyethylene) and α -3- (3-			
(2H-benzotriazol-2-yl)-5-tert-			
butyl-4-hydroxyphenyl)			
propionyl-ω-3-(3-(2H-			
benzotriazol-2-yl)-5-tert-			
butyl-4-hydroxyphenyl)			
propionyloxypoly			
(oxyethylene)			
2-hydroxyethyl methacrylate	0.42	-	Low

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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. 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

Product

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SECTION 13: Disposal considerations			
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			

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

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

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	Waste catalogue	
Container	15 01 06	mixed packaging
Special precautions	taken when Empty cont residues ma container. thoroughly i	al 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. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with <i>v</i> ays, drains and sewers.

SECTION 14: Transport information

: Yes.

	ADR/RID	ADN	IMDG	ΙΑΤΑ
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		111	111	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(trizinc bis (orthophosphate))	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
ADN	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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SECTION 14: Transport information

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

14.7 Transport in bulk : Not available. according to IMO

instruments

SECTION 15: Regulatory information

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

UK (GB)/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.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c E2

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

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SECTION 16: Other information

-	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<u>History</u>

Date of issue/ Date of revision	: 10 May 2024
Date of previous issue	: 12 April 2024
Prepared by	: EHS
Version	: 1.09

Disclaimer

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