

SAFETY DATA SHEET

OE604D INT 620 VOLVOGEEL42688 SN82 25KG

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

: OE604D INT
: 8011480

OE604D INT 620 VOLVOGEEL42688 SN82 25KG

OE604D/25KG

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

Identified uses			
All other uses			
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Product use
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: Electrostatic coating for use in industrial plants

1.3 Details of the supplier of the safety data sheet

AkzoNobel Powder Coatings Limited Stoneygate Lane, Felling, Gateshead. NE10 0JY United Kingdom e-mail address of person : sdsfellinguk@akzonobel.com responsible for this SDS <u>National contact</u> 01 8092566 or 01 8379964 1.4 Emergency telephone number <u>National advisory body/Poison Centre</u> Telephone number : +44 (0)344 892 0111

relephone number	
<u>Supplier</u>	
Telephone number	: +44 0191 469 6111
Hours of operation	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Mixture
	Regulation (EC) No. 1272/2008 [CLP/GHS]
E ye Dam. 1, H318	
Skin Sens. 1, H317	
Repr. 2, H361f	
Aquatic Chronic 3, H412	
The product is classified as ha	zardous according to Regulation (EC) 1272/2008 as amended.

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SECTION 2: Hazards identification

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 : Danger : May cause an allergic skin reaction. Hazard statements Causes serious eye damage. Suspected of damaging fertility. Harmful to aquatic life with long lasting effects. **Precautionary statements** Prevention : Øbtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Avoid release to the environment. Avoid breathing dust or mist. Response : IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. **Hazardous ingredients** : Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene-1,2,4-tricarboxylate Supplemental label : Warning! Hazardous respirable dust may be formed when used. Do not breathe elements dust. Annex XVII - Restrictions 2 on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : May form combustible dust concentrations in air. not result in classification



SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
I itanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤10	Carc. 2, H351 (inhalation)	-	[1] [*]
Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene- 1,2,4-tricarboxylate	REACH #: 01-2120065788-39 EC: 940-592-6	≤5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361f STOT RE 2, H373 (central nervous system (CNS)) (oral) Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1]
2-ethyl-N,N-bis (2-ethylhexyl)hexylamine	EC: 217-461-0 CAS: 1860-26-0	≤1	Repr. 2, H361 STOT RE 2, H373	-	[1]
ethyltriphenylfosfonium bromide	REACH #: 01-2119950681-36 EC: 216-223-3 CAS: 1530-32-1	<1	Acute Tox. 3, H301 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 2, H411	ATE [Oral] = 100 mg/kg	[1]
3,9-bis(2,4-di-tert- butylphenoxy) -2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane	EC: 247-952-5 CAS: 26741-53-7	≤0.99	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
			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>

Substance classified with a health or environmental hazard

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.



SECTION 4: First aid measures		
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.	
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Set medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

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.

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. Coating powders can cause localised skin irritation in folds of the skin or under tight clothing.

Contains Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene-1,2,4-tricarboxylate. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations



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SECTION 4: First aid	a measures
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immedi	iate medical attention and special treatment needed
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: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
5.2 Special hazards arising f	from the substance or mixture
Hazards from the substance or mixture	: May form explosible dust-air mixture if dispersed. 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 halogenated compounds metal oxide/oxides
5.3 Advice 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. 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

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. Do not breathe dust. 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.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
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

history of sk which this p Avoid expose been read a breathe dus of dust whe Prevent dus respirator w approved al in use. Elec standards to ignition sour avoid fire or bonding cor	ropriate personal protective equipment (see Section 8). Persons with a kin sensitization problems should not be employed in any process in product is used. Avoid exposure - obtain special instructions before use. sure during pregnancy. Do not handle until all safety precautions have and understood. Do not get in eyes or on skin or clothing. Do not st. Do not ingest. Avoid release to the environment. Avoid the creation in handling and avoid all possible sources of ignition (spark or flame). st accumulation. Use only with adequate ventilation. Wear appropriate when ventilation is inadequate. Keep in the original container or an lternative made from a compatible material, kept tightly closed when not ctrical equipment and lighting should be protected to appropriate o prevent dust coming into contact with hot surfaces, sparks or other rces. Take precautionary measures against electrostatic discharges. To r explosion, dissipate static electricity during transfer by earthing and ntainers and equipment before transferring material. Empty containers uct residue and can be hazardous. Do not reuse container.
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SECTION 7: Handling and storage

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

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 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 Specifie	c end use(s)
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Recommendations	: Not available.
Industrial sector specific	: Not available.

Industrial sector specific 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
titanium dioxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 4 mg/m ³ 8 hours. Form: respirable TWA: 10 mg/m ³ 8 hours. Form: total inhalable
procedures atmosphere or of the ventilatio protective equil the following: E the assessmen limit values and atmospheres - of exposure to (Workplace atm for the measure	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory pment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for at of exposure by inhalation to chemical agents for comparison with d measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 mospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

DNELs/DMELs

Туре	Exposure	Value	Population	Effects
DNEL	Long term Oral	0.03 mg/	General	Systemic
DNEL	Long term	0.06 mg/m ³		Systemic
	Inhalation		population	
DNEL	Long term Dermal	0.07 mg/	General	Systemic
		kg bw/day	population	
DNEL	Long term Dermal	0.13 mg/	Workers	Systemic
		kg bw/day		
DNEL	Long term	0.23 mg/m ³	Workers	Systemic
	Inhalation			
3-5-2023		Version	:3	
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	DNEL DNEL DNEL DNEL	DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation	DNELLong term Oral0.03 mg/ kg bw/dayDNELLong term0.06 mg/m³DNELLong term Dermal0.07 mg/ kg bw/dayDNELLong term Dermal0.13 mg/ kg bw/dayDNELLong term Dermal0.13 mg/ kg bw/dayDNELLong term0.23 mg/m³3-5-2023Version	DNELLong term Oral0.03 mg/ kg bw/day 0.06 mg/m³General populationDNELLong term Inhalation0.06 mg/m³General populationDNELLong term Dermal0.07 mg/ kg bw/dayGeneral populationDNELLong term Dermal0.13 mg/ kg bw/dayWorkersDNELLong term Inhalation0.23 mg/m³Workers

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SECTION 8: Exposure controls/personal protection					
ethyltriphenylfosfonium bromide	DNEL	Long term Oral	0.1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.15 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.222 mg/ m ³	General population	Systemic
	DNEL	Long term Dermal	0.42 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.48 mg/m ³	Workers	Systemic
3,9-bis(2,4-di-tert-butylphenoxy) -2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5]undecane	DNEL	Long term Oral	0.39 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.39 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.68 mg/m ³		Systemic
	DNEL	Long term Dermal	0.78 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.75 mg/m ³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
9-bis(2,4-di-tert-butylphenoxy) -2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5] undecane	Fresh water	0.002 mg/l	Assessment Factors
	Sewage Treatment Plant	42 mg/l	Assessment Factors
	Fresh water sediment	2000000 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment Soil	00	Equilibrium Partitioning Assessment Factors

8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, 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 controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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Individual protection measures

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. 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	: 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: chemical splash

gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

SECTION 8: Exposure controls/personal protection

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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacturer 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 estimated.
	When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness \geq 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness \geq 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.
	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.
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.
	Personnel should wear protective clothing. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder are avoided.
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.
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

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

Date of previous issue	: 25-10-2022	9/18	AkzoNobel
Date of issue/Date of revision	: 18-5-2023	Version : 3	
Lower and upper explosion limit	: 20 - 70 g/m3		
Flammability	: Not available.		
Initial boiling point and boiling range	: Not available.		
Melting point/freezing point	: Not available.		
Odour threshold	: Not available.		
Odour	: Odourless.		
Colour	: Yellow.		
Physical state	: Solid. [Powder.]		
<u>Appearance</u>			

SECTION 9: Physical an	d	chemical properties
Flash point	:	🖉osed cup: Not applicable. [Pensky-Martens]
Auto-ignition temperature	:	450 to 600°C (842 to 1112°F)
Decomposition temperature	:	Not available.
рН	:	Not applicable. [DIN EN 1262]
Viscosity	:	Kinematic (room temperature): Not applicable. [DIN EN ISO 3219] Kinematic (40°C): Not applicable. [DIN EN ISO 3219]
Solubility(ies)	:	
Media		Result
cold water		Not soluble [OESO (TG 105)]
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	Not available.
Relative density	:	1.2 to 1.9 [ISO 8130-2/-3]
Vapour density	:	Not applicable.
Particle characteristics		
Median particle size	:	Not available.
Percentage of particles with aerodynamic diameter ≤ 10 µm	:	

9.2 Other information

Minimum ignition energy (mJ) : 5 to 20

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	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). 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. Prevent dust accumulation.	
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	



SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
9-bis(2,4-di-tert- butylphenoxy) -2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary : Not available.

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)
₱5/OE604D/EU 620 GLOSS VOLVO GEEL 42688	6837.9	N/A	N/A	N/A	N/A
Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene- 1,2,4-tricarboxylate	500	N/A	N/A	N/A	N/A
ethyltriphenylfosfonium bromide	100	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3 ,9-bis(2,4-di-tert- butylphenoxy) -2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane	Skin - Severe irritant	Rabbit	-	0.5 gm	-
Conclusion/Summary	: Not available.				

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Sen	sitis	atio	n

Conclusion/Summary : Not available.

<u>Mutagenicity</u>

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene- 1,2,4-tricarboxylate	-	-	Positive	,	Oral: 3 mg/kg	-

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

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Product/ingredient name	Category	Route of exposure	Target organs
Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene-1,2,4-tricarboxylate	Category 2	oral	central nervous system (CNS)
2-ethyl-N,N-bis(2-ethylhexyl)hexylamine	Category 2	-	-
ethyltriphenylfosfonium bromide	Category 2	-	-

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye damage.
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
• • • • • • •		
		al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
Delayed and immediate effec	ts	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

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SECTION 11: Toxicological information

Potential	chronic	health	effects

Not available.

Conclusion/Summary General	 Not available. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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	: Suspected of damaging fertility.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Coating powder residues should not be allowed to enter drains or watercourses or be deposited where they could affect ground or surface waters.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is
classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

	Species	Exposure
Acute EC50 19.3 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute EC50 27.8 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute EC50 35.306 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 13.4 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 11 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 3.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 15.9 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
Acute LC50 13 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
EC50 97 mg/l	Algae	72 hours
LC50 70.7 mg/l	Fish	96 hours
	Acute EC50 27.8 mg/l Fresh water Acute EC50 35.306 mg/l Fresh water Acute LC50 3 mg/l Fresh water Acute LC50 13.4 mg/l Fresh water Acute LC50 11 mg/l Fresh water Acute LC50 3.6 mg/l Fresh water Acute LC50 3.6 mg/l Fresh water Acute LC50 15.9 mg/l Fresh water Acute LC50 6.5 mg/l Fresh water Acute LC50 13 mg/l Fresh water Acute LC50 >1000000 µg/l Marine water Acute LC50 >1000 mg/l Fresh water EC50 97 mg/l	Acute EC50 27.8 mg/l Fresh water Acute EC50 35.306 mg/l Fresh waterDaphnia - Daphnia magna Daphnia - Daphnia dubia - Neonate Crustaceans - Ceriodaphnia dubia - Neonate Crustaceans - Ceriodaphnia dubia - Neonate Crustaceans - Ceriodaphnia dubia - Neonate Crustaceans - Ceriodaphnia dubia - Neonate Daphnia - Daphnia pulex - NeonateAcute LC50 13 mg/l Fresh water Acute LC50 >1000000 µg/l Marine water Acute LC50 >1000 mg/l Fresh water EC50 97 mg/lDaphnia - Daphnia pulex - Neonate Fish - Pimephales promelas Algae



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SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethyl-N,N-bis(2-ethylhexyl) hexylamine	10.131	-	high

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 Endocrine disrupting properties

Not available.

12.7 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

<u>Product</u>	
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	: The classification of the product may meet the criteria for a hazardous waste.
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
EWC 08 02 01	waste coating powders

Packaging



SECTION 13: Disposal considerations

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

-			
	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

14.6 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.

14.7 Maritime transport in : Not applicable. **bulk 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.



SECTION 15: Regulatory information

SECTION 15. Regula	tory mornation
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,	: Not applicable.
mixtures and articles	
Other EU regulations	
VOC	: Not applicable.
VOC for Ready-for-Use Mixture	: Not applicable.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
<u>Ozone depleting substanc</u> Not listed.	<u>es (1005/2009/EU)</u>
Prior Informed Consent (P Not listed.	<u>IC) (649/2012/EU)</u>
Persistent Organic Polluta Not listed.	<u>nts</u>
Seveso Directive	
•	d under the Seveso Directive.
<u>National regulations</u> Industrial use	: 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. The provisions of the national health and safety at work regulations apply to the use of this product at work.
International regulations	
Chemical Weapon Convent Not listed.	ion List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on F Not listed.	Persistent Organic Pollutants
Rotterdam Convention on F Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol on Not listed.	POPs and Heavy Metals
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.



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SECTION 16: Other information

Indicates information that has changed from previously issued version.
Abbroviations and
ATE = Acute Toyicity Estimate

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

Classification	Justification
🗾 🖉 ye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361f	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H 301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

Full text of classifications [CLP/GHS]

	1051,01101		
Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Carc. 2 Eye Dam. 1 Repr. 2 Skin Irrit. 2 Skin Sens. 1 STOT RE 1 STOT RE 2		ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC H LONG-TERM (CHRONIC) AQUATIC H LONG-TERM (CHRONIC) AQUATIC H CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITA REPRODUCTIVE TOXICITY - Categor SKIN CORROSION/IRRITATION - Cate SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY EXPOSURE - Category 2	AZARD - Category 2 AZARD - Category 3 TION - Category 1 y 2 egory 2 Y - REPEATED
Date of printing	: 19 May 2023		
Date of issue/ Date of revision	: 18 May 2023		
Date of previous issue	: 25 October 202	22	
Date of issue/Date of revision	: 18-5-2023	Version : 3	
Date of previous issue	: 25-10-2022	17/18	AkzoNobel

SECTION 16: Other information

Version

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Unique ID

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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