

# SAFETY DATA SHEET

YG658F INTERPON ACE 2010 LOW-E RD286 SN95 15KG

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

## 1.1 Product identifier

Product name	
SDS code	

: YG658F INTERPON ACE 2010 LOW-E RD286 SN95 15KG : 8117128

YG658F/15KG

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

	Identified uses	
Industrial use		
Uses advised against		
All other uses		
Dreadle at sea a	. Electrostationes for una in industrial plants	

Product use

: 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 Telephone number : +44 (0)344 892 0111

<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

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

Eye Irrit. 2, H319 Skin Sens. 1, H317 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.

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# **SECTION 2: Hazards identification**

## 2.2 Label elements Hazard pictograms



		▼
Signal word	:	Warning
Hazard statements	:	May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing dust or mist.
Response	:	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. If eye irritation persists: Get medical advice or attention.
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 elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
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	:	May form combustible dust concentrations in air.



## **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Reaction mass of bis (2,3-epoxypropyl) terepthalate and tris (oxiranylmethyl) benzene- 1,2,4-tricarboxylate	REACH #: 01-2120065788-39 EC: 940-592-6	<3	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]
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	≤1	Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	M [Chronic] = 1	[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. Type

[1] Substance classified with a health or environmental hazard

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	: 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. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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	: 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.



# **SECTION 4: First aid measures**

Ingestion	: 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. Get medical attention if adverse health effects persist or are severe. 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. 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 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
Ingestion	: No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>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.</li> </ul>
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting 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 from the substance or mixture

Hazards from the<br/>substance or mixture: May form explosible dust-air mixture if dispersed. This material is harmful to aquatic<br/>life with long lasting effects. Fire water contaminated with this material must be<br/>contained and prevented from being discharged to any waterway, sewer or drain.

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SECTION 5: Firefighting measures		
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, pro	tective 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 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	containment and cleaning up
Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. 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

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 dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. 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

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

## **SECTION 8: Exposure controls/personal protection**

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

Recommended monitoring procedures	atmosphere or biological of the ventilation or other protective equipment. Re the following: European the assessment of expos limit values and measure atmospheres - Guide for of exposure to chemical (Workplace atmospheres for the measurement of c	gredients with exposure limits, persona monitoring may be required to determi control measures and/or the necessity eference should be made to monitoring Standard EN 689 (Workplace atmosph sure by inhalation to chemical agents for ment strategy) European Standard EN the application and use of procedures and biological agents) European Stand s - General requirements for the perform chemical agents) Reference to national for the determination of hazardous sub-	ine the effectiveness y to use respiratory g standards, such as heres - Guidance for or comparison with N 14042 (Workplace for the assessment dard EN 482 mance of procedures al guidance
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# **SECTION 8: Exposure controls/personal protection**

required.

Product/ingredient name	Туре	Exposure	Value	Population	Effects
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 <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.78 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.75 mg/m <sup>3</sup>	Workers	Systemic

## **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
9.9-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	vapour or mist, use process engineering controls to kee recommended or statutory	ntilation. If user operations generations denotes a senclosures, local exhaust vention p worker exposure to airborne controls. The engineering controls ons below any lower explosive lint.	lation or other ontaminants below any also need to keep gas,
Individual protection measur	<u>es</u>		
Hygiene measures	before eating, smoking and Appropriate techniques sho Contaminated work clothing	I face thoroughly after handling of using the lavatory and at the en ould be used to remove potentiall g should not be allowed out of the re reusing. Ensure that eyewash prkstation location.	d of the working period. ly contaminated clothing. e workplace. Wash
Eye/face protection	assessment indicates this i gases or dusts. If contact i unless the assessment indi	with an approved standard shoul s necessary to avoid exposure to s possible, the following protection cates a higher degree of protect tions cause high dust concentrat	o liquid splashes, mists, on should be worn, ion: chemical splash
Skin protection			
Hand protection	be worn at all times when h this is necessary. Conside check during use that the g should be noted that the tin different for different glove	ious gloves complying with an ap andling chemical products if a ris ring the parameters specified by loves are still retaining their proto ne to breakthrough for any glove manufacturers. In the case of m otection time of the gloves canno	sk assessment indicates the glove manufacturer, ective properties. It material may be hixtures, consisting of
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## **SECTION 8: Exposure controls/personal protection**

	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 ≥ 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 ≥ 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	<ul> <li>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.</li> </ul>
	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

<u>Appearance</u>			
Physical state	: Solid. [Powder.]		
Colour	: Red.		
Odour	: Odourless.		
Odour threshold	: Not available.		
Melting point/freezing point	: Not available.		
Initial boiling point and boiling range	: Not available.		
Flammability	: Not available.		
Lower and upper explosion limit	: 20 - 70 g/m3		
Flash point	: Closed cup: Not appl	cable. [Pensky-Martens]	
Auto-ignition temperature	: 450 to 600°C (842 to	1112°F)	
Decomposition temperature	: Not available.		
рН	: Not applicable. [DIN I	EN 1262]	
Viscosity		perature): Not applicable. [DIN EN ISO 3219] t applicable. [DIN EN ISO 3219]	
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## **SECTION 9: Physical and chemical properties**

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

<b>SECTION 10: Stabilit</b>	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
3,9-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

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# **SECTION 11: Toxicological information**

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Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
P5/YG658F/EU INT 820LB GLOSS CASE RED 28	42087.5	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

### 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.				
<u>Sensitisation</u>					
<b>Conclusion/Summary</b>	: Not available.				
<u>Mutagenicity</u>					
<b>Conclusion/Summary</b>	: Not available.				
<b>Carcinogenicity</b>					
<b>Conclusion/Summary</b>	: 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)

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)

## Aspiration hazard

Not available.

## Information on likely routes : Not available.

#### of exposure

#### Potential acute health effects

Eye contact

: Causes serious eye irritation.

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<b>SECTION 11: Toxico</b>	logical information
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.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
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
Ingestion	: No specific data.
Delayed and immediate effect	cts 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	<u>ects</u>
Conclusion/Summary	: Not available.
General	: 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	: No known significant effects or critical hazards.
<b>11.2 Information on other ha</b> <b>11.2.1 Endocrine disrupting</b> Not available.	

11.2.2 Other information

No additional information.



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# **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.

Product/ingredient name	Result	Species	Exposure
3,9-bis(2,4-di-tert- butylphenoxy) -2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane	EC50 97 mg/l	Algae	72 hours
	LC50 70.7 mg/l	Fish	96 hours

Conclusion/Summary : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

## 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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	Disposal of this product, s with the requirements of e any regional local authorit products via a licensed wa	hould be avoided or minimised whe olutions and any by-products should invironmental protection and waste y requirements. Dispose of surplus aste disposal contractor. Waste sho less fully compliant with the requirem	at all times comply disposal legislation and and non-recyclable ould not be disposed of
Hazardous waste	: The classification of the p	roduct may meet the criteria for a ha	izardous waste.
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## **SECTION 13: Disposal considerations**

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           waste coating powders		
EWC 08 02 01			
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Disposal considerations	<ul> <li>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.</li> <li>Dispose of containers contaminated by the product in accordance with local or national legal provisions.</li> </ul>		
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.

user

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

14.7 Maritime transport in : Not applicable. bulk according to IMO instruments



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SECTION 15: Regula	tory information
UK (GB) /REACH	onmental regulations/legislation specific for the substance or mixture
Annex XIV - List of Substan	
None of the components a	ire listed.
Substances of very high	<u>concern</u>
None of the components a	ire listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
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
Ozone depleting substanc	<u>es (1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (P Not listed.	IC) (649/2012/EU)
Persistent Organic Polluta Not listed.	<u>nts</u>
Seveso Directive This product is not controlled National regulations	d under the Seveso Directive.
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	ion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

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## **SECTION 15: Regulatory information**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

# **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	<ul> <li>ATE = Acute Toxicity Estimate 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</li> </ul>
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

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

Justification
Calculation method Calculation method Calculation method

#### Full text of abbreviated H statements

<b>F</b> 302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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]

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		EXPOSURE - Category 2		
STOT RE 2 EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED		ATED		
STOT RE 1		SPECIFIC TARGET ORGAN TOXICITY - REPEATED		
Skin Sens. 1		SKIN SENSITISATION - Category 1		
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2				
Repr. 2		REPRODUCTIVE TOXICITY - Category 2		
Eye Irrit. 2		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Eye Dam. 1		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
Aquatic Chronic 3		LONG-TERM (CHRONIC) AQUATIC HAZARD -		
Aquatic Chronic 2		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		
Aquatic Chronic 1		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1		
Acute Tox. 4		ACUTE TOXICITY - Category 4		

## **SECTION 16: Other information**

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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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