

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

YW283F INT D2525 MATT BRONZE SO25 25KG

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

1.1 Product identifier	
Product name	: YW283F INT D
SDS code	: 8028901

2525 MATT BRONZE SO25 25KG

YW283F/25KG

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

	Identified uses	
Industrial use		
	Uses advised against	
All other uses		
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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 National contact 01 8092566 or 01 8379964 1.4 Emergency telephone number

National advisory body/Poison Centre

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]

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.

Date of issue/Date of revision	: 8-8-2023	Version : 3	
Date of previous issue	: 25-5-2023	1/16	AkzoNobel

SECTION 2: Hazards identification

2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Avoid release to the environment.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Contains nickel powder. May produce an allergic reaction.
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
chromium	EC: 231-157-5 CAS: 7440-47-3	<1	Aquatic Chronic 4, H413	-	[1] [2]
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	M [Chronic] = 1	[1]
Nickel	EC: 231-111-4 CAS: 7440-02-0 Index: 028-002-01-4	≤0.3	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412	-	[1]
Date of issue/Date of revision	: 8-8-2023	1	Version : 3	1	I
Date of previous issue	: 25-5-2023		2/16	Akzo	Nobe

SECTION 3: Composition/information on ingredients

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. Type

[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.

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. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	 Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

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 nickel powder. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate 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.

Date of issue/Date of revision	: 8-8-2023	Version : 3	
Date of previous issue	: 25-5-2023	3/16	AkzoNobel

SECTION 5: Firefighting measures

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5.1 Extinguishing media Suitable extinguishing		Use dry chemical powder.
media	•	
Unsuitable extinguishing media	:	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
5.2 Special hazards arising fr	on	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 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: Accident	ta	release measures
6.1 Personal precautions, pro	ote	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 dust. 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. Vacuum or sweep up material and place in a designated, labelled 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. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Date of issue/Date of revision	: 8-8-2023	Version : 3
Date of previous issue	: 25-5-2023	4/16



SECTION 6: Accidental release measures

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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 solutions	: Not available.

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
chromium	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 0.5 mg/m ³ 8 hours.
Nickel	EH40/2005 WELs (United Kingdom (UK), 1/2020). [nickel and
	its inorganic compounds, water-insoluble (except nickel
	tetracarbonyl)] Absorbed through skin. Inhalation sensitiser.
	TWA: 0.5 mg/m³, (as Ni) 8 hours.

Date of issue/Date of revision	: 8-8-2023	Version : 3	
Date of previous issue	: 25-5-2023	5/16	AkzoNobe

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be
	documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
chromium	DNEL	Long term	0.027 mg/	General	Local
		Inhalation	m³	population	
	DNEL	Long term	0.5 mg/m ³	Workers	Local
		Inhalation	_		
3,9-bis(2,4-di-tert-butylphenoxy)	DNEL	Long term Oral	0.39 mg/	General	Systemic
-2,4,8,10-tetraoxa-			kg bw/day	population	
3,9-diphosphaspiro[5.5]undecane					
	DNEL	Long term Dermal	0.39 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.68 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.78 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	2.75 mg/m ³	Workers	Systemic
		Inhalation			
Nickel	DNEL	Long term	60 ng/m³	General	Local
		Inhalation		population	
	DNEL	Long term	60 ng/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	0.011 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.035 mg/	General	Local
			Cm ²	population	
	DNEL	Long term Dermal	0.035 mg/	Workers	Local
			Cm ²		
	DNEL	Long term	0.05 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	0.05 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term Oral	0.37 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term	0.8 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	11.9 mg/m ³	Workers	Local
		Inhalation			

PNECs



3,9-bis(2,4-di-tert-butylpher -2,4,8,10-tetraoxa-3,9-dipho undecane 2 Exposure controls Appropriate engineering		Fresh water] Sewage Treatment Plant Fresh water sediment Marine water sediment Soil	0.002 mg/l 42 mg/l 2000000 mg/kg dwt	Assessment Factors Assessment Factors
Appropriate engineering		Plant Fresh water sediment Marine water sediment	2000000 mg/kg	
Appropriate engineering		Marine water sediment		
Appropriate engineering			awi	Equilibrium Partitioning
Appropriate engineering			200000 mg/kg dwt 1 mg/kg dwt	Equilibrium Partitioning Assessment Factors
controls	vapour or engineeri recomme vapour or	with adequate ventilation. If u mist, use process enclosure ng controls to keep worker ex ended or statutory limits. The dust concentrations below a tilation equipment.	s, local exhaust vent posure to airborne o engineering controls	tilation or other contaminants below any s also need to keep gas
Individual protection measu	ures			
Hygiene measures	before ea Appropria Wash coi	ands, forearms and face thoroughly after handling chemical products, eating, smoking and using the lavatory and at the end of the working peri riate techniques should be used to remove potentially contaminated cloth contaminated clothing before reusing. Ensure that eyewash stations and showers are close to the workstation location.		
Eye/face protection	assessm gases or unless th side-shie	Safety eyewear complying with an approved standard should be used when a assessment indicates this is necessary to avoid exposure to liquid splashes, n gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses side-shields. If operating conditions cause high dust concentrations to be pro- use dust goggles.		
Skin protection	.			
Hand protection	be worn a this is new check du should be different f several s estimated When pro protection recomme When on (breakthr Recomm	-resistant, impervious gloves at all times when handling che cessary. Considering the par ring use that the gloves are si a noted that the time to breakt for different glove manufactur ubstances, the protection time d. blonged or frequently repeated in class of 6 (breakthrough time inded. Recommended gloves ly brief contact is expected, a ough time >30 minutes accor ended gloves: Nitrile, thicknes hould be replaced regularly ar	emical products if a r ameters specified by till retaining their pro- through for any glove ers. In the case of r e of the gloves canno- d contact may occur e >480 minutes accur s: Viton ® or Nitrile, t glove with protection ding to EN374) is re- ss \geq 0.12 mm.	isk assessment indicate y the glove manufacture tective properties. It e material may be nixtures, consisting of ot be accurately , a glove with a ording to EN374) is thickness ≥ 0.38 mm. n class of 2 or higher commended.
		ormance or effectiveness of th damage and poor maintenan		uced by physical/
	product is	must check that the final cho the most appropriate and tal cluded in the user's risk asse	kes into account the	
Body protection	being per	protective equipment for the formed and the risks involved indling this product.		
ate of issue/Date of revision	: 8-8-2023		Version : 3	

Date of issue/Date of revision	: 8-8-2023	Version : 3	
Date of previous issue	: 25-5-2023	7/16	AkzoNobel

SECTION 8: Exposure controls/personal protection

	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	: Brown.
Odour	: Odourless.
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Flammability	: Not available.
Lower and upper explosion limit	: 20 - 70 g/m3
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)	:

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	: 0		
.2 Other information			
Minimum ignition energy (mJ)	: 5 to 20		
Date of issue/Date of revision	: 8-8-2023	Version : 3	
ate of previous issue	: 25-5-2023	8/16	AkzoNobel

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
chromium	LD50 Route of exposure unreported	Rat	27500 µg/kg	-
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	-
Nickel	LD50 Intratracheal	Rat	38200 µg/kg	-

Acute toxicity estimates

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>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Date of issue/Date of revision	: 8-8-2023	Ver	sion : 3		



SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Teratogenicity

enicity

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
Nickel	Category 1	-	-

Aspiration hazard

Not available.

Information on likely routes : Not available. **of exposure**

Potential acute health effects

Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
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: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Short term exposure	<u> </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 eff		
Not available.		
Conclusion/Summary	Not available.	
General	Repeated or prolonged inhalation of dust may lead to chronic respi	iratory irritation.
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
Date of issue/Date of revision	: 8-8-2023 Version : 3	
Date of previous issue	: 25-5-2023 10/16	AkzoNobel

SECTION 11: Toxicological information

Reproductive toxicity : No known significant effects or critical hazards.

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.

Product/ingredient name	Result	Species	Exposur
chromium	Acute EC50 220 ppb Marine water	Algae - Bacillariophyta	72 hours
	Acute EC50 0.2 ppm Marine water	Algae - Bacillariophyta	72 hours
	Acute EC50 17.8 mg/l Marine water	Algae - Dunaliella tertiolecta -	72 hours
		Exponential growth phase	
	Acute EC50 5 ppm Marine water	Algae - Macrocystis pyrifera -	4 days
		Young	
	Acute EC50 35000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 0.07 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3540 µg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 45 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 10470 µg/l Fresh water	Crustaceans - Cyclops sp Adult	48 hours
	Acute LC50 1010 µg/l Marine water	Crustaceans - Penaeus indicus	48 hours
	Acute LC50 50 µg/l Fresh water	Crustaceans - Simocephalus vetulus	48 hours
	Acute LC50 22 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 48 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 13.9 ppm Fresh water	Fish - Anguilla rostrata	96 hours
	Acute LC50 14.3 ppm Fresh water	Fish - Cyprinus carpio	96 hours
	Acute LC50 16.9 ppm Fresh water	Fish - Fundulus diaphanus	96 hours
	Acute LC50 17 ppm Fresh water	Fish - Lepomis gibbosus	96 hours
	Acute LC50 14.4 ppm Fresh water	Fish - Morone americana	96 hours
	Chronic NOEC 50 mg/l Marine water	Algae - Glenodinium halli	72 hours
	Chronic NOEC 1.9 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 0.4 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 0.21 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 0.19 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 17 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
8,9-bis(2,4-di-tert- outylphenoxy) 2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] indecane	EC50 97 mg/l	Algae	72 hours
linecalle		Fish	06
	LC50 70.7 mg/l	Fish	96 hours
Nickel	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1280 µg/l Marine water	Crustaceans - Metapenaeus	48 hours
te of issue/Date of revision	: 8-8-2023	Version : 3	X0
te of previous issue	: 25-5-2023	11/16	kzoNob

SECTION 12: Ecological information

	ensis	
Acute LC50 1.3 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 1.54 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 1.64 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 2.3 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
Chronic NOEC 100 mg/l Marine wa	er Algae - Glenodinium halli	72 hours
Chronic NOEC 0.025 ppm Fresh wa	ater Fish - Cyprinus carpio	45 days
Chronic NOEC 6.3 µg/l Fresh water		4 weeks
Chronic NOEC 3.5 µg/l Fresh water		4 weeks
Chronic NOEC 13 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
Chronic NOEC 6 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

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 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

Product

Date of issue/Date of revision	
Date of previous issue	



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 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	The classification of the product may meet the criteria for a hazardous waste. 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		
Packaging	<u>-</u>	

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.

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.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

YW283F INT D2525 MATT BRONZE SO25 25KG

SECTION 14: Transport information

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 <u>UK (GB) /REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions 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 : Not listed (integrated pollution prevention and control) -Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Nickel	Exposure Limits EH40 - WEL	nickel and its inorganic compounds, water-insoluble (except nickel tetracarbonyl) (as Ni)	Carc.	-

International regulations

<u>Chemical Weapon Convention List Schedules I, II & III Chemicals</u> Not listed.

Date of issue/Date of revision	: 8-8-2023	Version : 3	
Date of previous issue	: 25-5-2023	14/16	AkzoNobel

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

YW283F INT D2525 MATT BRONZE SO25 25KG

SECTION 15: Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	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	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H statements

H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

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Date of previous issue	: 25-5-2023	15/16	AkzoNobel

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YW283F INT D2525 MATT BRONZE SO25 25KG

Aquatic Chronic 1 Aquatic Chronic 3 Aquatic Chronic 4 Carc. 1B Carc. 2 Muta. 2 Repr. 1B Resp. Sens. 1 Skin Sens. 1 STOT RE 1		LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 CARCINOGENICITY - Category 1B CARCINOGENICITY - Category 2 GERM CELL MUTAGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1B RESPIRATORY SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
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Unique ID	:	

Notice to reader

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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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