

SAFETY DATA SHEET

ALZ90F INT REDOX PZ GREY SN36 25KG

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

1.1 Product identifier		
Product name	: ALZ90F INT REDOX PZ GREY SN36 25KG	
SDS code	: 8024375 ALZ90F/25KG	

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

	Identified uses	
Mustrial use		
Uses advised against		
All other uses		
Product use	: Electrostatic coating for use in industrial plants	

1.3 Details of the supplier of the safety data s

1.3 Details of the supplier of t	he safety data sheet	
AkzoNobel Powder Co Stoneygate Lane, Felling, Gateshead. NE10 0JY United Kingdom	oatings Limited	
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/Pois	<u>on Centre</u>	
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]
E ye Dam. 1, H318	
Skin Sens. 1, H317	
Repr. 1B, H360F	
Aquatic Acute 1, H400	
Aquatic Chronic 1, H410	



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SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms Signal word : Danger **Hazard statements** 5 May cause an allergic skin reaction. Causes serious eye damage. May damage fertility. Very toxic 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 : Collect spillage. 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** : bisphenol A Supplemental label : Not applicable. elements 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. May cause endocrine disruption. not result in classification



SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture	I		1	
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Zinc powder - zinc dust (stabilized)	EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥25 - ≤50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
bisphenol A	EC: 201-245-8 CAS: 80-05-7	≤5	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335	-	[1] [2] [3]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
2-methylimidazole	EC: 211-765-7 CAS: 693-98-1	<0.3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 2, H351 Repr. 1B, H360Df See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

0 M.

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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.
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.



SECTION 4: First aid measures		
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 4,4'-isopropylidenediphenol. May produce an allergic reaction.

Over-exposure signs/symptoms

<u></u>	
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

4.3 Indication of any immediate medical attention and special treatment needed

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Date of previous issue	: 23-11-2022	4/20	AkzoNobel

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SECTION 4: First aid	Imeasures
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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	rom the substance or mixture
Hazards from the substance or mixture	: May form explosible dust-air mixture if dispersed. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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. Collect spillage.

6.3 Methods and material for containment and cleaning up

Date of issue/Date of revision	: 9-5-2023	Version : 3	
Date of previous issue	: 23-11-2022	5/20	AkzoNobel

SECTION 6: Accidental release measures

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

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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. 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. 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.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
E1	100 tonne	200 tonne

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SECTION 7: Handling and storage

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

Product/ingredient name	Exposure limit values
øisphenol A	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 2 mg/m ³ 8 hours. Form: inhalable dust
procedures atmosphere or of the ventilatio protective equip 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 n or other control measures and/or the necessity to use respiratory oment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for t of exposure by inhalation to chemical agents for comparison with I 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 nospheres - 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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Zinc powder - zinc dust (stabilize	ed) DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
bisphenol A	DNEL	Short term Dermal	0.0019 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.0019 mg/ kg bw/day		Systemic
	DNEL	Short term Oral	0.004 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.004 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.031 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.031 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1 mg/m³	General population	Local
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ECTION 8: Exposure cont	rols/p	ersonal prote	ction		
	DNEL	Short term Inhalation	1 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	2 mg/m³	Workers	Local
	DNEL	Long term Inhalation	2 mg/m³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	2 mg/m³	Workers	Systemic
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
2-methylimidazole	DNEL	Long term Oral	0.02 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.04 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.3 mg/m ³	Workers	Systemic

PNECs

No PNECs available

9.2 Experies controls	
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.
Individual protection measur	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated 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 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

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 indicates 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

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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	: Grey.		
Physical state	: Solid. [Powder.]		
<u>Appearance</u>			

SECTION 9: Physical and chemical properties				
Flash point	:	Ølosed 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
sphenol A	LD50 Dermal	Rabbit	3 mL/kg	-
	LD50 Intraperitoneal	Mouse	150 mg/kg	-
	LD50 Intraperitoneal	Rat	200 mg/kg	-
	LD50 Oral	Guinea pig	4 g/kg	-
	LD50 Oral	Guinea pig	4000 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Mouse	2500 mg/kg	-
	LD50 Oral	Mouse	2500 mg/kg	-
	LD50 Oral	Rabbit	2230 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Oral	Rat	4240 mg/kg	-
	LD50 Oral	Rat	3250 mg/kg	-
	LD50 Subcutaneous	Rabbit	3000 mg/kg	-
zinc oxide	LD50 Intraperitoneal	Rat	240 mg/kg	-
	LD50 Oral	Mouse	7950 mg/kg	-
2-methylimidazole	LD50 Intraperitoneal	Mouse	480 mg/kg	-
-	LD50 Oral	Mouse	1400 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)
₽-methylimidazole	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
b ísphenol A	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Skin - Mild irritant	Rabbit	-	250 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
l				mg	
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
		D 11 1		mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
<u> </u>				mg	
Conclusion/Summary	: Not available.				
<u>Sensitisation</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
aa					
Conclusion/Summary	: Not available.				
•	: Not available.				
Conclusion/Summary <u>Carcinogenicity</u> Conclusion/Summary	: Not available. : Not available.				
Carcinogenicity					
<u>Carcinogenicity</u> Conclusion/Summary					
Carcinogenicity Conclusion/Summary Reproductive toxicity	: Not available.				

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ing	redient name	Category	Route of exposure	Target organs
p isphenol A		Category 3	-	Respiratory tract irritation
Specific target organ toxic Not available.	ty (repeated expo	<u>osure)</u>		
Aspiration hazard Not available.				
Information on likely routes of exposure	: Not available.			
Potential acute health effect	<u>s</u>			
Eye contact	: Causes serior	us eye damage.		
Inhalation		irborne concentrations above s use irritation of the nose, throat		mended exposure
Skin contact	: May cause ar	allergic skin reaction.		
Ingestion	: No known sig	nificant effects or critical hazar	ds.	
Symptoms related to the sh	veical chomical a	and toxicological characteria	tice	
Eye contact	-	and toxicological characteris ptoms may include the following		
	pain watering redness		y.	
Inhalation	: Adverse symp respiratory tra coughing reduced foeta increase in fo skeletal malfo	l weight etal deaths	g:	
Skin contact	: Adverse symp pain or irritation redness blistering may reduced foeta increase in foo skeletal malfoo	/ occur I weight etal deaths	g:	
Ingestion	: Adverse symp stomach pain reduced foeta increase in fo skeletal malfo	l weight etal deaths	g:	
Delayed and immediate effe	<u>cts as well as chr</u>	onic effects from short and I	ong-term exposi	ure
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	: May damage 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.

Product/ingredient name	Result	Species	Exposure
Zinc powder - zinc dust (stabilized)	Acute EC50 0.005 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.0092 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 106 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 246 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 10000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 70 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 356 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 354 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 175 µg/l Fresh water	Fish - Pimephales promelas - Larvae	96 hours
	Acute LC50 70 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 65 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 76 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 96 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 100 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 68 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 107 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 0.24 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ate of issue/Date of revision	: 9-5-2023	Version : 3	1
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ECTION 12: Ecolog	ical information		
3	Acute LC50 182 µg/l Fresh water	Fish - Oncorhynchus	96 hours
	Acute LC50 12.21 µg/l Marine water	tshawytscha Fish - Periophthalmus waltoni -	96 hours
		Adult	
	Acute LC50 238 µg/l Fresh water	Fish - Pimephales promelas - Newly or recently hatched	96 hours
	Chronic NOEC 105 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential	72 hours
	Chronic NOEC 72.9 µg/l Fresh water	growth phase Algae - Pseudokirchneriella subcapitata - Exponential	72 hours
	Chronic NOEC 91 µg/l Fresh water	growth phase Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 178 µg/l Marine water	Crustaceans - Palaemon elegans	21 days
	Chronic NOEC 62.6 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 94.5 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 72.7 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 172 µg/l Fresh water	Fish - Cottus bairdi	30 days
	Chronic NOEC 8.3 µg/I Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 2.6 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 199 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days
bisphenol A	Acute EC50 1.506 mg/l Marine water	Algae - Prorocentrum minimum - Exponential growth phase	72 hours
	Acute EC50 1.51 mg/l Marine water	Algae - Prorocentrum minimum - Exponential growth phase	72 hours
	Acute EC50 2700 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 1000 µg/l Marine water	Algae - Skeletonema costatum	
	Acute EC50 1800 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 7.75 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 20.5 mg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute EC50 10200 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 9940 μg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute EC50 5.246 mg/l Fresh water	Fish - Danio rerio - Embryo	96 hours
	Acute LC50 3.881 mg/l Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 4.04371 mg/l Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 1.34 mg/l Marine water	Crustaceans - Americamysis bahia - Larvae	48 hours
	Acute LC50 1600 μg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 50.4 µg/l Marine water	Crustaceans - Artemia sinica	48 hours
	Acute LC50 12.8 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4.2 mg/l Fresh water	Fish - Pimephales promelas - Larvae Fish - Pimephales promelas	96 hours 96 hours
	Acute LC50 4.2 mg/l Fresh water Acute LC50 4700 μg/l Fresh water	Larvae Fish - Pimephales promelas	96 hours
ate of issue/Date of revision	Acute LC50 4.2 mg/l Fresh water	Larvae Fish - Pimephales promelas Version : 3	

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	ogical information	Fish Dimensional and a supervision	00 h a
	Acute LC50 4600 µg/l Fresh water Acute LC50 3.5 mg/l Marine water	Fish - Pimephales promelas Fish - Rivulus marmoratus -	96 hours 96 hours
	Acute 2000 5.5 mg/r Manne water	Embryo	30 110013
	Chronic NOEC 5 mg/l Fresh water	Algae - Chlorella pyrenoidosa	72 hours
	Chronic NOEC 4 mg/l Fresh water	Algae - Chlorolobion braunii -	4 days
	5	Exponential growth phase	,
	Chronic NOEC 4 mg/l Fresh water	Algae - Chlorolobion braunii -	4 days
		Exponential growth phase	
	Chronic NOEC 2 mg/l Fresh water	Algae - Chlorolobion braunii -	4 days
		Exponential growth phase	
	Chronic NOEC 0.1 mg/l Fresh water	Crustaceans - Asellus	21 days
		aquaticus - Juvenile (Fledgling,	
	Chronic NOEC 0.05 mg/l Fresh water	Hatchling, Weanling) Crustaceans - Asellus	21 days
	Chronic NOEC 0.03 high Flesh water	aquaticus - Juvenile (Fledgling,	21 uays
		Hatchling, Weanling)	
	Chronic NOEC 10 µg/l Marine water	Crustaceans - Tigriopus	21 days
		japonicus - Nauplii	
	Chronic NOEC 10 µg/l Marine water	Crustaceans - Tigriopus	21 days
		japonicus - Nauplii	
	Chronic NOEC 10 µg/l Marine water	Crustaceans - Tigriopus	21 days
		japonicus - Nauplii	
	Chronic NOEC 0.8 mg/l Fresh water	Daphnia - Daphnia magna -	21 days
	Chronic NOEC 1 mg/l Fresh water	Neonate Daphnia - Daphnia magna -	21 days
	Chronic NOLO T high Tresh water	Neonate	21 uays
	Chronic NOEC 0.86 mg/l Fresh water	Daphnia - Daphnia magna -	21 days
		Neonate	,
	Chronic NOEC 0.86 mg/l Fresh water	Daphnia - Daphnia magna -	21 days
		Neonate	
	Chronic NOEC 30 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	30 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	60 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	90 days
	Chronic NOEC 0.2 µg/I Fresh water	Fish - Carassius auratus - Adult	90 days
	Chronic NOEC 6 µg/l Fresh water	Fish - Oryzias latipes - Embryo	44 days
inc oxide	Acute EC50 1 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 0.622 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Acute EC50 0.481 mg/l Fresh water	Neonate Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 1.25 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 3.969 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
	Acute LC50 2.525 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 2246000 µg/l Fresh water	Fish - Pimephales promelas -	96 hours
		Neonate	
-methylimidazole	Acute LC50 286000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Conclusion/Summary : Not available.



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SECTION 12: Ecological information

12.3 Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
bisphenol A	3.4	20 to 67	low
zinc oxide	-	28960	high
2-methylimidazole	0.24	-	low

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	: 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 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.



SECTION 13: Disposal considerations

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	UN3077	UN3077	UN3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (Zinc powder zinc dust (stabilized), zinc oxide)		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	111	111	Ш
14.5 Environmental hazards	Yes.	Marine Pollutant(s): Zinc powder - zinc dust (stabilized), zinc oxide	Yes.
ADR/RID IMDG	or ≤5 kg, provid and 4.1.1.4 to 4 <u>Tunnel code</u> (- : This product is or ≤5 kg, provid and 4.1.1.4 to 4 <u>IMDG Code Se</u>) not regulated as a dangerous good led the packagings meet the gener	al provisions of 4.1.1.1, 4.1.1.2 d when transported in sizes of ≤5 L al provisions of 4.1.1.1, 4.1.1.2 netals and their salts (including
ΙΑΤΑ	: This product is	not regulated as a dangerous good ed the packagings meet the gener	d when transported in sizes of ≤5 L
14.6 Special precau user	upright and sec	in user's premises: always trans ure. Ensure that persons transport accident or spillage.	port in closed containers that are ing the product know what to do in
14.7 Maritime trans bulk according to IN 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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
✓ oxic to reproduction	bisphenol A 2-methylimidazole	Recommended Candidate	ED/01/2018 D(2020) 4578-DC	10/1/2019 6/25/2020
Endocrine disrupting properties for human health	bisphenol A	Recommended	ED/01/2018	10/1/2019
Endocrine disrupting properties for environment	bisphenol A	Recommended	ED/01/2018	10/1/2019

Annex XVII - Restrictions : Restricted to professional users. on the manufacture, placing on the market

and use of certain dangerous substances,

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	:	Listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Listed
Ozone depleting substance	es	<u>(1005/2009/EU)</u>

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
E1	

National regulations

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SECTION 15: Regulatory information		
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 Conven	tion List Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol Not listed.		
Stockholm Convention on Not listed.	Persistent Organic Pollutants	
Rotterdam Convention on Not listed.	Prior Informed Consent (PIC)	
UNECE Aarhus Protocol or Not listed.	n POPs and Heavy Metals	
15.2 Chemical safety	: No Chemical Safety Assessment has been carried out.	

SECTION 16: Other information

assessment

Indicates information that has changed from previously issued version.

:23-11-2022

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
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

Date of previous issue

⊮ 302		Harmful if swallowed.
H314		Causes severe skin burns and eye damage.
H317		May cause an allergic skin reaction.
H318		Causes serious eye damage.
H335		May cause respiratory irritation.
H351		Suspected of causing cancer.
H360Df		May damage the unborn child. Suspected of damaging fertility.
H360F		May damage fertility.
H400		Very toxic to aquatic life.
H410		Very toxic to aquatic life with long lasting effects.
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SECTION 16: Other information

Full text of classifications [CLP/GHS]

Full text of classifications [CLP/GHS]			
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Carc. 2 Eye Dam. 1 Repr. 1B Skin Corr. 1C Skin Sens. 1 STOT SE 3		ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 REPRODUCTIVE TOXICITY - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
Date of printing	: 9 May 2023		
Date of issue/ Date of revision	: 9 May 2023		
Date of previous issue	: 23 November 2022		
Version	: 3		
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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