

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

## APD-B-SULPHUR BRONZE

Version 1      Date of compilation: 8/12/2022



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### Section 1: Identification of the substance/mixture and the undertaking.

#### 1.1 Product identifier.

Name of the product:                      SULPHUR BRONZE  
Product code:                                APD-B

#### 1.2 Relevant identified uses of the substance or mixture and discouraged uses.

Intermediate product for copper alloy castings

#### Uses not recommended for:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company:                      **ALEACIONES, PREALEACIONES Y DESOXIDANTES,SL**  
Address:                      P.I. PLA DE LLERONA, C/LUXEMBURG, S/N  
City:                              08520 - LES FRANQUESES DEL VALLES  
Province:                      BARCELONA  
Telephone:                      938404995  
Fax:                                938404996  
E-mail:                          info@apd-fundicion.com  
Web:                                www.apd-fundicion.com

**1.4 Emergency telephone number:** 938404995 (available from 08:00 am to 04:00 pm)

### SECTION 2: HAZARD IDENTIFICATION.

#### 2.1 Classification of the substance or mixture.

The mixture presented in solid (solid) form in accordance with Regulation (EU) No 1272/2008 is NOT classified as dangerous.

#### 2.2 Elements of the label.

##### **Labelling in accordance with Regulation (EU) No 1272/2008:**

Mixture not subject to labelling under Regulation (EU) No 1272/2008

#### 2.3 Other dangers.

The mixture does not contain substances classified as PBT.  
The mixture does not contain substances classified as mPmB.  
The mixture does not contain substances with endocrine-disrupting properties.

The product may have the following additional risks:

Metal with a high specific mass level. It can cause shock if not handled properly.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

#### 3.1 Substances.

Not applicable.

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### 3.2 Mixtures.

Substances posing a health or environmental hazard in accordance with Regulation (EC) No. 1272/2008, which have been assigned a Community occupational exposure limit and are classified as PBT/mPB or included in the list of candidate substances:

Identifiers	First name	Concentration	(*) Classification - Regulation (EC) No 1272/2008	
			Classification	Specific concentration limits and acute toxicity estimation
No CAS: 7440-50-8 No CE: 231-159-6 Registration number: 01-2119480154-42-XXXX	[2] Copper	>70<96 %	Aquatic Chronic 2, H411	-
Index No: 082-014-00-7 No CAS: 7439-92-1 EC number: 231-100-4 Registration number: 01-2119513221-59-XXXX	[1] [2] [5] Lead: [particle diameter 1 mm]	< 0,10 %	Lact., H362 - Repr. 1A, H360FD	-
No CAS: 7440-31-5 EC number: 231-141-8 Registration number: 01-2119486474-28-XXXX	[2] Tin	< 7 %	-	-
Index No: 015-001-00-1 No CAS: 12185-10-3 EC number: 231-768-7	Phosphorus	< 1 %	Acute toxicity. 2 *, H330 - Acute toxicity. 2 *, H300 - Aquatic acute 1, H400 - Pyr. Sol. 1, H250 - Skin Corr. 1A, H314	-
Index No: 030-001-01-9 No CAS: 7440-66-6 EC number: 231-175-3 Registration number: 01-2119467174-37-XXXX	Zinc (stabilized)	< 10 %	Aquatic acute 1, H400 - Aquatic chronic 1, H410	-
Index No: 028-002-00-7 No CAS: 7440-02-0 EC number: 231-111-4 Registration number: 01-2119438727-29-XXXX	[2] Nickel	< 3 %	Carc. 2, H351 - STOT RE 1, H372** - Skin Sens. 1, H317	-
Index No: 016-094-00-1 No CAS: 7704-34-9 EC number: 231-722-6 Registration number: 01-2119487295-27-xxxx	Sulfur	< 0,7 %	2 Skin Irrit. 2 H315	-

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(\*) The full text of the H-phrases is given in Section 16 of this safety data sheet.  
\*, \*\* See Section 1.2 of Annex VI to Regulation (EC) No. 1272/2008.  
[1] A substance with an EU workplace exposure limit (see Section 8.1).  
[2] A substance with a national workplace exposure limit (see 8.1).  
[5] Substance included in the list set out in Article 59, paragraph 1, REACH (Candidate substance).

### SECTION 4: FIRST AID.

#### 4.1 Description of first aid measures.

##### Inhalation.

Not applicable to solid metal.

In the event of the generation of fumes or vapours during the smelting of metal, it can cause smelter fever which develops about 3-10 hours after exposure to fumes with the presence of metal oxides. If necessary, go to the medical service.

##### Eye contact.

Not applicable to solid metal.

##### Contact with the skin.

Not applicable to solid metal. No negative effects described.

##### Ingestion.

Mixture not considered as a potential route of exposure.

#### 4.2 Symptoms and most important effects, both acute and delayed.

Symptoms of smelter fever, produced in case of smoke generation and inhalation of excessive amounts of metal fumes, can generate dryness and irritation of the throat, chest tightness and cough, general discomfort, sweating, frontal headache, muscle cramps, pain in the lower back, blurred vision, nausea and vomiting.

#### 4.3 Indication of any immediate medical care and necessary special treatment.

In case of any symptoms described: smelter fever, go to the medical service.

### SECTION 5: FIRE MEASURES.

The product is NOT classified as flammable, in case of fire the following measures must be taken:

#### 5.1 Means of extinction.

##### Suitable means of extinction:

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol resistant foam and water spray.

##### Inadequate means of extinction:

Do not use a direct stream of water to extinguish. In the presence of electrical tension, water or foam cannot be used as an extinguishing medium.

#### 5.2 Special hazards arising from the substance or mixture.

##### Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

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During a fire and depending on its magnitude the following may occur:

- Toxic fumes or gases.

### 5.3 Tips for Firefighting Professionals

Use water to cool tanks, tanks, or containers near the heat or fire source. Note the wind direction. Prevent fire products from entering drains, sewers, or waterways. Product residues and extinguishing media can contaminate the aquatic environment.

#### Equipment for fire protection.

Depending on the size of the fire, it may be necessary to wear heat protection suits, individual breathing equipment, gloves, goggles or protective masks and boots. During extinction and depending on the magnitude and proximity to fire, additional protective equipment such as chemical protection gloves, heat reflector suits or gas-proof suits may be required.

## SECTION 6: ACCIDENTAL RELEASE MEASURES.

### 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see Section 8.

### 6.2 Environmental precautions.

Not applicable as a mixture whose final product is a solid, the possibility of spillage does not exist, however, if the molten metal is present the following considerations shall be taken into account.

### 6.3 Containment and cleaning methods and materials.

The molten material should solidify and cool before being collected.

Dust-generating spills should be collected so that dust is not dispersed in the environment.

Contain and collect spills with inert absorbent material (soil, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed containers suitable for disposal in accordance with local and national regulations (see Section 13).

### 6.4 Reference to other sections.

For exposure control and individual protection measures, see Section 8.

For the subsequent disposal of wastes, follow the recommendations of article 13.

## Section 7: Handling and storage.

### 7.1 Precautions for safe handling.

For personal protection, see Section 8.

In the area of application, smoking, eating and drinking should be prohibited.

Follow legislation on health and safety at work.

Never use pressure to empty containers.

Keep the product in containers made of a material identical to the original.

### 7.2 Conditions for safe storage, including any incompatibility.

Store according to local legislation.

Store in a dry, well-ventilated place, away from heat sources and direct sunlight.

Stay away from the ignition points.

Stay away from oxidizing agents and highly acidic or alkaline materials.

The product is not affected by Directive 2012/18/EU (SEVESO III).

### 7.3 Specific end use(s).

Industrial/Professional use

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### SECTION 8: EXPOSURE/PERSONAL PROTECTION CONTROLS.

#### 8.1 Control parameters.

Occupational exposure limit for:

First name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>		
Copper	7440-50-8	Spain [1]	<b>Eight hours</b>		0.2 (fumes) 1 (powders and mists (such as Cu))		
			<b>Short-term</b>		2 (powders and mists (such as Cu))		
		Spain [2]	<b>Eight hours</b>		0.2 (Fumes) 1 (Powders and mists)		
			<b>Short-term</b>				
		Spain [3] (Cal/OSHA)	<b>Eight hours</b>		0.1 (Fumes (as Cu)) 1 (Powders and mists (as Cu))		
			<b>Short-term</b>				
		Spain [4] (NIOSH)	<b>Eight hours</b>		0.1 (Fumes (as Cu)) 1 (Powders and mists (as Cu))		
			<b>Short-term</b>				
		Spain [5] (OSHA)	<b>Eight hours</b>		0.1 (Fumes (as Cu)) 1 (Powders and mists (as Cu))		
			<b>Short-term</b>				
		Lead: [particle diameter 1 mm]	7439-92-1	Spain [6]	<b>Eight hours</b>		0,15
					<b>Short-term</b>		
Spain [2]	<b>Eight hours</b>				0,15		
	<b>Short-term</b>						
Spain [3] (Cal/OSHA)	<b>Eight hours</b>				0.05		
	<b>Short-term</b>						
Spain [4] (NIOSH)	<b>Eight hours</b>				0.05		
	<b>Short-term</b>						
Tin	7440-31-5	Spain [2]	<b>Eight hours</b>		2 (Metal) 2 (Inorganic oxide) 0.1 (Organic)		
			<b>Short-term</b>		0,2		
		Spain [3] (Cal/OSHA)	<b>Eight hours</b>		2 inorganic compounds (except oxides) (such as Sn), also tin oxide, except organic compounds SnH4 0.1 (such as Sn)		
					0,2 organic compounds (as Sn)		
			<b>Short-term</b>				

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		Spain [4] (NIOSH)	<b>Eight hours</b>		2 inorganic compounds (except oxides) (such as Sn) 0,1 organic compounds (such as Sn), except Cyhexatin
			<b>Short-term</b>		
		Spain [5] (OSHA)	<b>Eight hours</b>		2 inorganic compounds (except oxides) (such as Sn) 0,1 organic compounds (such as Sn)
			<b>Short-term</b>		
Nickel	7440-02-0	Spain [2]	<b>Eight hours</b>		0,5
			<b>Short-term</b>		

[1] According to the Limit Value (IOELV) list in the second Indicative Occupational Exposure adopted by the Health and Safety Executive.

[2] In accordance with the Code of Practice for Occupational Safety, Health and Welfare (Chemical Agents) Regulations adopted by the Health and Safety Authority (HSA).

[3] California Occupational Safety and Health Division (Cal/OSHA) Permissible Exposure Limits (PLA).

[4] National Institute of Occupational Safety and Health. NIOSH Recommendations on Occupational Safety and Health, Compendium of Policy Documents and Statements, January 1992, DHHS Publication No. 92-100 (NIOSH).

[5] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure Limits (PLA), Permissible Exposure Limits (PLA) of the California Division of Occupational Safety and Health (Cal/OSHA).

[6] In accordance with the Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by the Scientific Committee on Occupational Exposure Limits to Chemical Agents (SCOEL).

The product does NOT contain substances with biological limit values.

DNEL/DMEL concentration levels:

First name	DNEL/DMEL	Guy	Valour
Tin No CAS: 7440-31-5 EC number: 231-141-8	DNEL (Workers' Rights)	Inhalation, Chronic, Systemic effects	11,75 (mg/m <sup>3</sup> )
Phosphorus No CAS: 12185-10-3 EC number: 231-768-7	DNEL (Workers' Rights)	Inhalation, Chronic, Systemic effects	0,1 (mg/m <sup>3</sup> )
Zinc (stabilized) No CAS: 7440-66-6 EC number: 231-175-3	DNEL (Workers' Rights)	Inhalation, Chronic, Systemic effects	5 (mg/m <sup>3</sup> )
Nickel No CAS: 7440-02-0 EC number: 231-111-4	DNEL (Workers' Rights)	Inhalation, Chronic, Local effects	0,05 (mg/m <sup>3</sup> )
	DNEL (Workers' Rights)	Inhalation, Chronic, Systemic effects	0,05 (mg/m <sup>3</sup> )

DNEL: No derivative effect level, level of exposure to the substance below which no adverse effects are expected.

BMD: Minimum derived effect level, exposure level corresponding to a low risk, that risk should be considered a minimum tolerable.

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### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust ventilation and a good general exhaust system. Measures to be applied when molten metal is handled.

<b>Concentration:</b>	<b>100 %</b>		
<b>Uses:</b>	<b>Intermediate product for copper alloy castings</b>		
<b>Respiratory protection:</b>			
PPE:	Filter mask for particulate matter		
Characteristics:	«CE» marking, category III. Made of filtering material, it covers the nose, mouth and chin.		
CEN standards:	IN 149		
Maintenance:	Check for tears, defects, etc. before use. Since it is disposable personal protective equipment, it should be replaced after use.		
Observations:	It does not protect the worker unless it is properly adjusted. Follow the manufacturer's instructions on proper use of the equipment.		
Type of filter required:	P2		
<b>Protection of the hand:</b>			
PPE:	Non disposable heat and fire protective gloves		
Characteristics:	«CE» marking, category III.		
CEN standards:	UNE-EN- 420+A1: 2010, UNE-EN 407:2004, UNE-En-ISO 388:2018		
Maintenance:	A timetable for the regular replacement of gloves should be established in order to ensure that they are replaced before contaminants enter them. Using contaminated gloves may be more dangerous than not wearing gloves, as the contaminant may gradually build up in the glove material.		
Observations:	They should be replaced whenever tears, cracks or deformations are observed or when external dirt may reduce their resistance.		
Material:	Skin	Advance time (min.):	> 480
		Thickness of material (mm):	0,35
<b>Eye protection:</b>			
PPE:	Protective glasses against particle impacts.		
Characteristics:	«CE» marking, category II. Eye protection against dust and smoke.		
CEN standards:	EN 165, EN 166, EN 167, EN 168		
Maintenance:	Visibility through the lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically according to the manufacturer's instructions.		
Observations:	Some signs of wear include: yellow coloration of the lenses, superficial scratching of the lenses, scraping, etc.		
<b>Protection of the skin:</b>			
PPE:	Protective clothing against heat and fire.		
Characteristics:	«CE» marking, category III. The clothes should fit. The level of protection should be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for heat to pass through clothing.		
CEN standards:	EN 14116:2008, EN ISO 11612: 2015		
Maintenance:	To ensure uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
Observations:	The design of protective clothing should facilitate correct positioning, remaining in place without moving during the expected period of use, taking into account environmental factors, as well as any movement or position that the user may adopt during the performance of the activity.		
PPE:	Anti-static heat and fire safety footwear		
Characteristics:	«CE» marking, category III.		
CEN standards:	EN 14116:2008, EN ISO 11612: 2015, UNE-EN 407:2004.		
Maintenance:	For the correct maintenance of this type of safety footwear, it is necessary to observe the instructions specified by the manufacturer. Footwear should be replaced as soon as any signs of damage are observed.		
Observations:	Shoes should be cleaned regularly and dried when wet.		

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

#### 9.1 Information on basic physical and chemical properties.

Physical condition: Solid  
Color: Bright golden yellow  
Odor: Odorless  
Odour threshold: Not applicable (Not relevant for this product type)  
Melting point: 1005 °C  
Freezing point: Not applicable  
Boiling point or initial boiling point and boiling range: Not applicable (Not relevant for this product type)  
Flammability: Not applicable  
Lower explosion limit: Not applicable  
Upper explosion limit: Not applicable  
Flash Point: Not applicable  
Automatic ignition temperature: Not applicable  
Decomposition temperature: Not applicable  
pH: Not applicable (substance/mixture is apolar/aprotic).  
Kinematic viscosity: Not applicable (Not relevant for this type of product)  
Solubility: Not applicable  
Water solubility: Not applicable  
Liposolubility: Not applicable  
n-octanol/water partition coefficient (logarithmic value): Not applicable (not relevant for this product type)  
Vapour pressure: Not applicable (Not relevant for this type of product)  
Absolute density: Not applicable (Not relevant for this type of product)  
Relative density: 8,7  
Relative vapor density: Not available due to the nature/properties of the product  
Particulate Characteristics: Not applicable (Not relevant for this product type)

#### 9.2 Other information

Viscosity: Not applicable (Not relevant for this product type)  
Explosive properties: Not applicable/Not available due to the nature/properties of the product  
Oxidizing properties: Not applicable/Not available due to the nature/properties of the product  
Drip point: Not applicable (Not relevant for this type of product)  
Blink: Not applicable (Not relevant for this product type)

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

The product does not present risks due to its reactivity.

#### 10.2 Chemical stability.

Stable under recommended handling and storage conditions (see paragraph 7).

#### 10.3 Possibility of dangerous reactions.

The product does not present the possibility of dangerous reactions.

#### 10.4 Conditions to be avoided.

Avoid any improper handling.

#### 10.5 Incompatible materials.

Stay away from oxidizing agents and highly alkaline or acidic materials to avoid exothermic reactions.

#### 10.6 Dangerous decomposition products.

There is no decomposition if used for the intended uses.



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### SECTION 11: TOXICOLOGICAL INFORMATION.

#### 11.1 Information on the hazard classes defined in Regulation (EC) No 1272/2008.

There is no proven data available on the solid state product.

#### Toxicological information on the substances present in the composition.

(In case of handling the product in molten state)

a) Acute toxicity;

Classified product:

Acute (oral) toxicity, category 3: toxic if ingested.

Acute toxicity estimation (ATE):

Mixtures:

ATE (oral) = 100 mg/kg

b) Skin corrosion/irritation;

Classified product:

Corrosive skin, category 1A: Causes severe skin burns and eye damage.

c) Severe eye damage/irritation;

Classified product:

Severe eye damage, category 1: Causes severe eye damage.

d) Respiratory or skin sensitization;

Classified product:

Skin sensitizer, category 1: May cause an allergic skin reaction.

e) Germ cell mutagenicity;

Inconclusive data for classification.

f) Carcinogenicity;

Classified product:

Carcinogen, category 2: Suspected to cause cancer.

g) Reproductive toxicity;

Classified product:

Effects on or through breastfeeding: May cause harm to breastfed children.

Reproductive toxic, Category 1A: May damage fertility or the fetus.

h) Single STOT exposure;

Inconclusive data for classification.

i) Repeated exposure to STOT;

Classified product:

Specific target organ toxicity after repeated exposure, category 2: may cause organ damage through prolonged or repeated exposure.

j) danger of aspiration;

Inconclusive data for classification.

#### 11.2 Information on other hazards.

##### Endocrine disrupting properties

This product does not contain components with endocrine disrupting properties with effects on human health.

##### Other information

No information is available on other adverse health effects.

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### SECTION 12: ENVIRONMENTAL INFORMATION.

#### 12.1 Toxicity.

First name	Ecotoxicity			
	Guy	Rehearsal	Species	Valour
Lead: [particle diameter 1 mm]  No CAS: 7439-92-1 EC number: 231-100-4	Fish	LC50	Fish	2,8 mg/l (96 h) [1] [1] Coughlan, D.J., S.P. Gloss, y J. Kubota 1986. Acute and sub-chronic toxicity of lead to the early stages of life of small mouth bass ( <i>Micropterus dolomieu</i> ). Water air soil pollute. 28(3/4):265-275
	Aquatic invertebrates	LC50	Crustaceans	4,46 mg/l (48 h) [1] [1] Govindarajan, S., C.P. Valsaraj, R. Mohan, V. Hariprasad, and R. Ramasubramanian 1993. Toxicity of heavy metals in aquaculture organisms: <i>Penaeus indicus</i> , <i>Perna viridis</i> , <i>Artemia salina</i> and <i>Skeletonema costatum</i> . Pollut.Res. 12(3):187-189
	Aquatic plants			

#### 12.2 Persistence and degradability.

No information is available on the biodegradability of the substances present.  
No information is available on the degradability of the substances present.  
No information is available on the persistence and degradability of the product.

#### 12.3 Bioaccumulative potential.

No information is available on the bioaccumulation of the substances present.

#### 12.4 Mobility on the ground.

No information on mobility on the ground is available.  
The product must not be allowed into sewers or canals.  
Avoid penetration into the ground.

#### 12.5 Results of the PBT and mPvB evaluation.

The PBT and vPvB criteria of Annex XIII to the REACH Regulation for the mixture are not met.

#### 12.6 Endocrine disrupting properties.

This product does not contain components with endocrine-disrupting environmental properties.

#### 12.7 Other adverse effects.

No information is available on other adverse effects on the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS.

#### 13.1 Methods of waste treatment.

Do not pour into sewers or canals. Waste and empty containers must be handled and disposed of in accordance with current local/national legislation.  
Follow the provisions of Directive 2008/98/EC on waste management.

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### SECTION 14: TRANSPORT INFORMATION.

#### 14.1 UN number or identification number.

Not applicable. Mixture classified as not dangerous.

#### 14.2 Proper United Nations shipping name.

Description:

ADR/RID: It is not classified as dangerous for transportation.

IMDG: It is not classified as dangerous for transportation.

ICAO/IATA: It is not classified as dangerous for transportation.

#### 14.3 Transport hazard class(s).

Not dangerous during transport.

#### 14.4 Packing group.

Not dangerous during transport.

#### 14.5 Environmental risks.

Not dangerous during transport.

Transport by boat, FEm - Emergency sheets (F - Fire, S - Spills): Not applicable.

#### 14.6 Special precautions for the user.

Not dangerous during transport.

#### 14.7 Bulk shipping according to IMO instruments.

Not dangerous during transport.

### SECTION 15: REGULATORY INFORMATION.

#### 15.1 Safety, health and environmental standards/legislation specific to the substance or mixture.

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Classification of products according to Annex I to Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 on the placing on the market and use of biocidal products.

The product is not affected by the procedure laid down in Regulation (EU) No 649/2012 on the export and import of dangerous chemicals.

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Description of the substance, group of substances or mixture	Restriction conditions
27. Nickel No CAS 7440-02-0 EC No 231-111-4 and its compounds	1. Not used: (a) in any set of posts inserted into the pierced ears and other perforated parts of the human body, unless the nickel release rate from such posts is less than 0,2 µg/cm <sup>2</sup> /week (migration limit); (b) in articles intended to come into direct and prolonged contact with the skin, such as: - pending, - necklaces, bracelets and chains, anklets, finger rings, - watch cases, watch straps and tensioners, - rivet buttons, tensioners, rivets, zips and metal marks, when used in clothing, if the release rate of nickel from parts of these articles that come into direct and prolonged contact with the skin is greater than 0,5 µg/cm <sup>2</sup> /week. (c) in the case of articles referred to in point (b) where they have a non-adhesive coating, unless such coating is sufficient to ensure that the nickel release rate of parts of such articles which come into direct and prolonged contact with the skin does not exceed 0,5 µg/cm <sup>2</sup> /week for at least two years

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	<p>of normal use of the article.</p> <p>2. Articles covered by paragraph 1 shall not be placed on the market unless they comply with the requirements laid down in that paragraph.</p> <p>3. Standards adopted by the European Committee for Standardisation (CEN) shall be used as test methods to demonstrate the conformity of articles with paragraphs 1 and 2.</p>
<p>63. Lead No CAS 7439-92-1 N° CE 231-100-4 and its compounds</p>	<p>1. Articles of jewellery shall not be marketed or used in any individual part if the concentration of lead (expressed in metal) in that part is 0,05 % or more by weight.</p> <p>2. For the purposes of paragraph 1:</p> <p>(i) Jewellery shall include jewellery and costume jewellery and hair accessories, including:</p> <p>(a) bracelets, necklaces and rings;</p> <p>(b) perforating jewelry;</p> <p>(c) wristwatches and wristbands;</p> <p>(d) brooches and cufflinks;</p> <p>(ii) 'Individual part' means the material from which jewellery is manufactured and the individual components of jewellery articles.</p> <p>3. Paragraph 1 shall also apply to individual parts when they are marketed or used for the manufacture of jewellery.</p> <p>4. However, paragraph 1 shall not apply to:</p> <p>(a) glass as defined in Annex I (categories 1, 2, 3 and 4) to Council Directive 69/493/EEC (14);</p> <p>(b) internal components of watches inaccessible to consumers;</p> <p>(c) non synthetic or reconstructed precious and semi-precious stones (CN code 7103, established by Regulation (EEC) No 2658/87), unless treated with lead or with their compounds or mixtures containing lead;</p> <p>(d) glazes, defined as vitrifiable mixtures resulting from the melting, vitrification or sintering of molten minerals at a temperature of at least 500 °C.</p> <p>5. However, paragraph 1 shall not apply to articles of jewellery first placed on the market before 9 October 2013 and articles of jewellery produced before 10 December 1961.</p> <p>6. By 9 October 2017, the Commission shall reassess this entry in the light of new scientific information, including the availability of alternatives and the migration of lead from the articles referred to in paragraph 1 and, where appropriate, amend that entry accordingly.</p>
<p>72. Substances listed in column 1 of the table in Appendix 12</p>	<p>1. Shall not be placed on the market after 1 November 2020 in any of the following cases:</p> <p>(a) clothing or related accessories;</p> <p>(b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing;</p> <p>(c) the footwear;</p> <p>if the clothing, related accessory, textile other than clothing or footwear is for the use of consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater than that specified for that substance in Appendix 12.</p> <p>2. However, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg for the period from 1 November 2020 to 1 November 2023. The concentration specified in Appendix 12 shall be applied subsequently.</p> <p>3. Paragraph 1 shall not apply to:</p> <p>(a) related clothing, accessories or footwear, or parts of clothing, accessories or related footwear, manufactured exclusively of leather, leather or leather;</p>

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	<p>(b) non-textile fasteners and non-textile decorative accessories;</p> <p>(c) second-hand clothing, related accessories, textiles other than clothing or footwear</p> <p>(d) wall-to-wall carpets and textile floor coverings for interiors, carpets and carpets.</p> <p>4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or of Regulation (EU) 2017/745 of the European Parliament and of the Council (**).</p> <p>5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for later use for the same or similar purpose.</p> <p>6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions laid down in this Annex or other applicable Union legislation.</p> <p>7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, amend that point accordingly.</p> <p>(*) Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51).</p> <p>(**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.2017, p. 1),</p>
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### 15.2 Chemical safety assessment.

No chemical safety assessment of this substance/mixture has been carried out by the supplier.

## SECTION 16: OTHER INFORMATION.

Full text of H-phrases in Section 3:

H250	It burns spontaneously if exposed to air.
H300	Fatal if it's swallowed.
H314	It causes severe skin burns and eye damage.
H317	It can cause an allergic reaction in the skin.
H330	Fatal if you inhale.
H351	Suspected of causing cancer.
H360FD	It can damage fertility. It can harm the fetus.
H362	It can cause harm to breastfed children.
H372	It causes organ damage from prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with lasting effects.
H411	Toxic to aquatic life with lasting effects.

Codes of classification:

Acute toxicity. 2: Acute toxicity (inhalation), category 2  
Acute toxicity. 2: Acute (oral) toxicity, category 2  
Acute toxicity. 3: Acute (oral) toxicity, category 3  
Acute toxicity to the aquatic environment, category 1  
Aquatic Chronic 1: Chronic effect on the aquatic environment, Category 1

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Aquatic Chronic 2: Chronic effect on the aquatic environment, Category 2  
Carc. 2: carcinogen, category 2  
Eye Dam. 1: Severe eye damage, Category 1  
Lact. Effects on or via breastfeeding  
Pyr. Sol. 1: Pyrophoric solid, Category 1  
Repr. 1A: Toxic to reproduction, category 1A  
STOT RE-1: Target organ specific toxicity after repeated exposure, category 1  
STOT RE-2: Target organ specific toxicity after repeated exposure, category 2  
Corr. 1A skin: Corrosive skin, category 1A  
Skin Sens. 1: Skin Sensitizer, Category 1

### Classification and procedure used to derive the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP]:

Physical dangers	Based on the test data Method of calculation
Environmental risks	Calculation method

It is advisable to carry out basic training in occupational health and safety in order to handle this product correctly.

#### Abbreviations and acronyms used:

CEN: European Committee for Standardisation.  
DMEL: Minimum derived effect level, exposure level corresponding to a low risk, that risk should be considered a minimum tolerable.  
DNEL: No-effect derived level, level of exposure to the substance below which no adverse effects occur intended.  
EC50: Maximum mean effective concentration.  
PPE: Personal protective equipment.  
LC50: Lethal concentration, 50%.  
DL50: Lethal dose, 50%.

#### Main bibliographical references and data sources:

<http://eur-lex.europa.eu/homepage.html>  
<http://echa.europa.eu/>  
Regulation (EU) 2020/878.  
Reglamento (CE) no 1907/2006.  
Regulation (EU) No 1272/2008.

The information contained in this safety data sheet has been prepared in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) European Parliament and Council No 1907/2006 on the registration, evaluation, authorisation and restriction of chemical substances and mixtures (REACH).

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The information contained in this Safety Data Sheet on preparation is based on current knowledge and current Community and national legislation, insofar as the working conditions of users are beyond our knowledge and control. The product should not be used for purposes other than those specified without prior written instructions on how to handle it. It is always the responsibility of the user to take appropriate measures to comply with the requirements established by current legislation. The information contained in this safety data sheet contains only a description of the safety requirements of the preparation and should not be considered as a guarantee of its properties.