# SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base
Product code	: J984BSB
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier of sheet	The safety data
Sherwin-Williams UK Limited	1 - Protective & Marine
Coatings Division EMEAI	
Tower Works	
Kestor Street Bolton	
BL2 2AL	
United Kingdom	
+44 (0) 1204 521771	
The Sherwin-Williams Comp	any
Inver France SAS	200 70400
2 Rue Jean Revaus - BP 800 Thouars CEDEX	J88 - 79102
France	
e-mail address of person	: hse.pm.emea@sherwin.com
responsible for this SDS	
1.4 Emergency telephone nu	umbor
National advisory body/Pol	
Telephone number	: +34 91 562 04 20
-	. 134 31 302 04 20
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
CECTION 2: Userando id	entification
SECTION 2: Hazards ide	entification
2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
	Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 3, H226 Skin Irrit. 2, H315	
Eye Irrit. 2, H319	
Skin Sens. 1, H317	
Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
•	pazardous according to Regulation (EC) 1272/2008 on amondo
	nazardous according to Regulation (EC) 1272/2008 as amended. xt of the H statements declared above.

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#### **SECTION 2: Hazards identification**

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

#### 2.2 Label elements

Hazard pictograms



Signal word	: Warning
Hazard statements	: Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response	: Collect spillage.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: xylene  formaldehyde
Supplemental label elements	: Contains epoxy constituents. May produce an allergic reaction. FOR INDUSTRIAL USE ONLY

#### **Special packaging requirements**

Not applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other hazards which do : None known. not result in classification

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

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#### 3.2 Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Zinc Powder	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥75 - ≤90	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
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#### **SECTION 3: Composition/information on ingredients**

		ingreater		1	1
			STOT RE 2, H373		
			Asp. Tox. 1, H304		
Epoxy Polymer	CAS: 25036-25-3	≤5	Skin Irrit. 2, H315	-	[1]
			Eye Irrit. 2, H319		
			Skin Sens. 1, H317		
Zinc Oxide	REACH #:	≤5	Aquatic Acute 1, H400	M [Acute] = 1	[1]
	01-2119463881-32		Aquatic Chronic 1,	M [Chronic] = 1	
	EC: 215-222-5		H410		
	CAS: 1314-13-2				
	Index: 030-013-00-7				
1-Methoxy-2-propanol	EC: 203-539-1	≤3	Flam. Liq. 3, H226	-	[1] [2]
	CAS: 107-98-2		STOT SE 3, H336		
	Index: 603-064-00-3				
Butylated Urea-	CAS: 68002-19-7	≤3	Aquatic Chronic 4,	-	[1]
Formaldehyde Polymer			H413		
Ethylbenzene	REACH #:	≤3	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
	01-2119489370-35		Acute Tox. 4, H332	(vapours)] = 11 mg/	
	EC: 202-849-4		STOT RE 2, H373		
	CAS: 100-41-4		(hearing organs)		
	Index: 601-023-00-4		Asp. Tox. 1, H304		
			Aquatic Chronic 3,		
			H412		
Formaldehyde (max.)	REACH #:	<0.1	Flam. Liq. 2, H225	ATE [Oral] = 100	[1] [2]
	01-2119488953-20		Acute Tox. 3, H301	mg/kg	
	EC: 200-001-8		Acute Tox. 3, H311	ATE [Dermal] =	
	CAS: 50-00-0		Acute Tox. 3, H331	270 mg/kg	
	Index: 605-001-00-5		Skin Corr. 1B, H314	ATE [Inhalation	
			Eye Dam. 1, H318	(gases)] = 700 ppm	
			Skin Sens. 1, H317	Skin Corr. 1B,	
			Muta. 2, H341	H314: C ≥ 25%	
			Carc. 1B, H350	Skin Irrit. 2, H315:	
				5% ≤ C < 25%	
				Eye Dam. 1, H318:	
				C ≥ 25%	
				Eye Irrit. 2, H319:	
				5% ≤ C < 25%	
				Skin Sens. 1, H317: C ≥ 0.2%	
			See Section 16 for		
			the full text of the H		
			statements declared		
			above.		

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

[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

General	<ul> <li>In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.</li> </ul>
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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

Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains Epoxy Polymer. May produce an allergic reaction.

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

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray or mist.	
Unsuitable extinguishing media	: Do not use water jet.	

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

Hazards from the	:	Fire will produce dense black smoke. Exposure to decomposition products may
substance or mixture		cause a health hazard.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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### SECTION 5: Firefighting measures

Hazardous combustion products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</li> </ul>

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pr	ive equipment and emergency procedures	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing v Refer to protective measures listed in sections 7 and 8.	/apor or mist.
	Keep unnecessary and unprotected personnel from entering.	
For emergency responders	f specialized clothing is required to deal with the spillage, take note nformation in Section 8 on suitable and unsuitable materials. See a nformation in "For non-emergency personnel".	
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contami ivers, or sewers, inform the appropriate authorities in accordance vegulations.	
6.3 Methods and materials for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent mater earth, vermiculite or diatomaceous earth and place in container for according to local regulations (see Section 13). Preferably clean wit Avoid using solvents.	disposal
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective eq See Section 13 for additional waste treatment information.	uipment.

### **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	<ul> <li>Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.</li> <li>Information on fire and explosion protection</li> <li>Vapors are heavier than air and may spread along floors. Vapors may form</li> </ul>
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#### **SECTION 7: Handling and storage**

explosive mixtures with air.

	When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.
7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions</li> <li>Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Contaminated absorbent material may pose the same hazard as the spilled product. Store in closed original container at temperatures between 5°C and 25°C.</li> </ul>
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

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

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).

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
Xylene, mixed isomers	National institute of occupational safety and health (Spain, 4/2022). [Xylene, mixture of isomers] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes.
1-Methoxy-2-propanol	National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 375 mg/m <sup>3</sup> 8 hours. STEL: 150 ppm 15 minutes. STEL: 568 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	National institute of occupational safety and health (Spain, 4/2022). Absorbed through skin. TWA: 100 ppm 8 hours. TWA: 441 mg/m <sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m <sup>3</sup> 15 minutes.
Formaldehyde (max.)	National institute of occupational safety and health (Spain,
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#### **SECTION 8: Exposure controls/personal protection**

4/2022). Skin sensitizer. STEL: 0.6 ppm 15 minutes. STEL: 0.74 mg/m<sup>3</sup> 15 minutes. TWA: 0.37 mg/m<sup>3</sup> 8 hours. TWA: 0.3 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	National institute of occupational safety and health (Spain, 4/2022) [Xylenes] VLB: 1 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
ethylbenzene	National institute of occupational safety and health (Spain, 4/2022) VLB: 700 mg/g creatinine, sum of mandelic acid and acid and phenylglyoxylic acid [in urine]. Sampling time: end of workweek.
procedures Europe assess values atmos of expo (Work for the docum require	ence should be made to monitoring standards, such as the following: ean Standard EN 689 (Workplace atmospheres - Guidance for the sment of exposure by inhalation to chemical agents for comparison with limit and measurement strategy) European Standard EN 14042 (Workplace pheres - Guide for the application and use of procedures for the assessment osure to chemical and biological agents) European Standard EN 482 place atmospheres - General requirements for the performance of procedures measurement of chemical agents) Reference to national guidance nents for methods for the determination of hazardous substances will also be ed.

: Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Zinc Powder	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General	Local
	DNEL	Short term Inhalation	174 mg/m³	General	Systemic
	DNEL	Long term Oral	1.5 mg/kg	General population	Systemic

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

Zinc Oxide	DNEL	Long torm	5 mg/m <sup>3</sup>	Workers	Systemic
	DINEL	Long term Inhalation	5 mg/m³	VVOIKEIS	Systemic
	DNEL	Long term	0.5 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
			bw/day	population	Cysternio
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
1-Methoxy-2-propanol	DNEL	Short term Inhalation	553.5 mg/ m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	369 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43.9 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General <sup>-</sup> population	Systemic
	DNEL	Long term Oral	33 mg/kg bw/day	[Consumers] General population [Consumers]	Systemic

#### PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Zinc Powder	Fresh water	20.6 µg/l	-
	Marine water	6.1 µg/l	-
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
	Sewage Treatment Plant	100 µg/l	-
Zinc Oxide	Fresh water	0.0206 mg/l	-
	Marine water	0.0061 mg/l	-
	Sewage Treatment Plant	0.1 mg/l	-
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
1-Methoxy-2-propanol	Fresh water	10 mg/l	-
	Fresh water sediment	52.3 mg/kg	-
	Marine water sediment	5.2 mg/kg	-
	Soil	4.59 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-

8.2 Exposure controls	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
	: Users are advised to consider national Occupational Exposure Limits or other

: Users are advised to consider national Occupational Exposure Limit equivalent values.

#### Individual protection measures

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

	e controis/personal protection
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	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	<ul> <li>Gloves for short term exposure/splash protection (less than 10 min.): Nitrile&gt;0.12 mm</li> <li>Gloves for splash protection need to be changed immediately when in contact with</li> </ul>
	chemicals. Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm
	For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG)
	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this
	product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	<ul> <li>Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.</li> </ul>
	: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	<ul> <li>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.</li> </ul>

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

Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. 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.

#### **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

	ur una	renemen properties
<u>Appearance</u>		
Physical state	: Li	iquid.
Color	: G	Gray.
Odor	: P	laint
Odor threshold	: N	lot Available (Not Tested).
рH		lot relevant/applicable due to nature of the product. nsoluble in water.
Melting point/freezing point	: N	lot relevant/applicable due to nature of the product.
Initial boiling point and boiling range	: 12	20°C
Flash point	: C	Closed cup: 23°C [Pensky-Martens Closed Cup]
Evaporation rate	: 0.	.8 (butyl acetate = 1)
Flammability	: F	lammable liquid.
Lower and upper explosion limit		EL: 1% (Xylene, mixed isomers) IEL: 13.74% (1-Methoxy-2-propanol)
Vapor pressure	: 1.	.5 kPa (10.9 mm Hg)
Relative vapor density	: 3.	.1 [Air = 1]
Relative density	: 3.	.5
Solubility(ies)	:	
Media		Result
cold water		Not soluble

**Partition coefficient: n-octanol**/ : Not relevant/applicable due to nature of the product.

2

#### water

Auto-ignition temperature

Ingredient name		°C	°F	Metho	d		
1-Methoxy-2-propanol		286	546.8				
Decomposition temperature	: Not rele	evant/applicable due	e to nature	of the product.			
Viscosity	: Kinema	atic (40°C): >20.5 m	m²/s				
Explosive properties	: Under	normal conditions o	f storage a	nd use, hazardo	ous reactior	ns will not	occur.
Oxidizing properties	: Under	normal conditions o	f storage a	nd use, hazardo	ous reactior	ns will not	occur.
Particle characteristics							
Median particle size	: Not rele	evant/applicable due	e to nature	of the product.			
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#### **SECTION 9: Physical and chemical properties**

#### 9.2 Other information

Heat of combustion

: 2.811 kJ/g

SECTION 10: Stability and reactivity					
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredier	ıts.			
10.2 Chemical stability	Stable under recommended storage and handling conditions (see Section 7).				
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.				
10.5 Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.				
10.6 Hazardous decomposition products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.				

## Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

#### **SECTION 11: Toxicological information**

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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains Epoxy Polymer. May produce an allergic reaction.

#### Acute toxicity

## **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Formaldehyde (max.)	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

#### Acute toxicity estimates

Route	ATE value		
Inhalation (gases)	17936.8 mg/kg 109251.4 ppm 1013.64 mg/l		

#### Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Skin - Mild irritant	Human	-	72 hours 300	-
			ug l	
Eyes - Mild irritant	Rabbit	-	87 mg	-
Eyes - Severe irritant	Rabbit	-	24 hours 5	-
			mg	
Skin - Mild irritant	Rat	-	8 hours 60 uL	-
Skin - Moderate irritant	Rabbit	-	100 %	-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
Eyes - Mild irritant	Rabbit	-	24 hours 500	-
			mg	
Skin - Mild irritant	Rabbit	-	24 hours 500	-
			mg	
Eyes - Mild irritant	Rabbit	-		-
		-		-
		-		-
Skin - Mild irritant	Rabbit	-		-
Eyes - Mild irritant	Human	-		-
	<b>D</b> 11 11			
Eyes - Severe irritant	Rabbit	-		-
	Dabbit			
		-		-
Skin - Mild Irritant	Human	-		-
Skin Mild irritant	Dabbit			
		-		-
Skin - Moderate Initant	Rabbit	-		-
Skin Severe irritant	Human			
		-		-
	ιταυνιι	1 -		l –
	Skin - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant	Skin - Mild irritantHumanEyes - Mild irritantRabbitEyes - Severe irritantRabbitSkin - Mild irritantRatSkin - Moderate irritantRatSkin - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Moderate irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Mild irritantRabbitSkin - Mild irritantRabbitSkin - Mild irritantRabbitEyes - Severe irritantRabbitSkin - Mild irritantHumanEyes - Severe irritantRabbitEyes - Severe irritantRabbitSkin - Mild irritantRabbitSkin - Severe irritantRabbitSkin - Severe irritantHumanSkin - Severe irritantHumanSkin - Severe irritantHuman	Skin - Mild irritantHuman-Eyes - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantRat-Skin - Moderate irritantRat-Skin - Moderate irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Skin - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantRabbit-Eyes - Severe irritantRabbit-Eyes - Severe irritantRabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantRabbit-Skin - Severe irritantRabbit-Skin - Severe irritantHuman-Skin - Severe irritantHuman-	Skin - Mild irritantHuman-72 hours 300 ug IEyes - Mild irritantRabbit-87 mgEyes - Severe irritantRabbit-24 hours 5 mgSkin - Mild irritantRat-8 hours 60 uLSkin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgEyes - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgSkin - Mild irritantRabbit-24 hours 500 mgEyes - Severe irritantRabbit-24 hours 500 mgEyes - Severe irritantRabbit-24 hours 500 mgEyes - Severe irritantRabbit-24 hours 15 mgEyes - Severe irritantRabbit-24 hours 15 mgEyes - Severe irritantRabbit-24 hours 150 ugEyes - Severe irritantRabbit-750 ugSkin - Mild irritantRabbit-72 hours 150 ug ISkin - Mild irritantRabbit-540 mgSkin - Mild irritantRabbit-24 hours 50 

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## **SECTION 11: Toxicological information**

Conclusion/Summary

#### Sensitization

: Not available.

#### No data available

#### Conclusion/Summary : Not available.

#### **Mutagenicity**

No data available

### **Carcinogenicity**

No data available

#### Reproductive toxicity

No data available

### **Teratogenicity**

No data available

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 3		Respiratory tract irritation
1-Methoxy-2-propanol	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2		hearing organs

#### Aspiration hazard

Product/ingredient name	Result		
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1		
Ethylbenzene	ASPIRATION HAZARD - Category 1		

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

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## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
Zinc Powder	Acute EC50 10000 µg/l Fresh water	Aquatic plants - <i>Lemna minor</i>	4 days 🥄
	Acute EC50 34 µg/l Fresh water	Crustaceans - <i>Ceriodaphnia</i> <i>dubia</i> - Neonate	48 hours
	Acute IC50 65 µg/l Marine water	Algae - <i>Nitzschia closterium</i> - Exponential growth phase	4 days
	Acute LC50 68 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.21 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.25 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 178 µg/l Marine water	Crustaceans - <i>Palaemon</i> elegans	21 days
	Chronic NOEC 2.6 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Zinc Oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
-	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Formaldehyde (max.)	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.442 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 3.26 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Embryo	48 hours
	Acute LC50 11.41 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Marine water	Algae - <i>Phyllospora comosa</i> - Embryo	96 hours
	Chronic NOEC 3000 ppm Fresh water	Crustaceans - Astacus astacus - Egg	21 days
	Chronic NOEC 1.56 mg/l Fresh water	Fish - Oreochromis niloticus - Fingerling	12 weeks

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.					l
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Xylene, mixed isomers Ethylbenzene	-		-		Readily Readily	

#### 12.3 Bioaccumulative potential

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base J984BSB

#### **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Zinc Oxide	-	28960	High

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### SECTION 13: Disposal considerations 13.1 Waste treatment methods Product Methods of disposal : The generation of waste should be avoided or minimized 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 : Yes. European waste : waste paint and varnish containing organic solvents or other hazardous substances 08 01 11\* catalogue (EWC) **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. Packaging Methods of disposal : The generation of waste should be avoided or minimized 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. European waste packaging containing residues of or contaminated by hazardous substances 15 01 : catalogue (EWC) 10\*

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base J984BSB

#### SECTION 13: Disposal considerations

Special precautions: This material and its container must be disposed of in a safe way. Care should be<br/>taken when handling emptied containers that have not been cleaned or rinsed out.<br/>Empty containers or liners may retain some product residues. Vapor from product<br/>residues may create a highly flammable or explosive atmosphere inside the<br/>container. Do not cut, weld or grind used containers unless they have been cleaned<br/>thoroughly internally. Avoid dispersal of spilled material and runoff and contact with<br/>soil, waterways, drains and sewers.

#### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT. Marine pollutant (Zinc Powder, Zinc Oxide)	PAINT
14.3 Transport Hazard Class(es)/ Label(s)			3
14.4 Packing group	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

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

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

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#### **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorization

#### Annex XIV

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

Product/ingredient name	%	Designation [Usage]
ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base formaldehyde toluene 4,4'-isopropylidenediphenol	≥90 <0.1 ≤0.1 <0.01	3 72 48 66
Labeling : Not applicable.		
Other EU regulations		
VOC content (2010/75/EU) : 9.7 w/w 342 g/l		
Industrial emissions : Listed (integrated pollution prevention and control) - Air		
Industrial emissions : Listed (integrated pollution prevention and control) - Water		
<b>Explosive precursors</b> : Not applicable.		
<u>Seveso Directive</u>		

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
Formaldehyde (max.)	Spain Occupational Exposure Limits for Chemical Agents	formaldehído	Carc. 1B	-

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

#### Assessment

#### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: 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
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative
	N/A = Not available

#### J984BSB

## **SECTION 16: Other information**

: Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of
Dangerous Goods by Road
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Commission Regulation (EU) 2020/878
Directive 2012/18/EU, and relative amendments & additions
Directive 2008/98/EC, and relative amendments & additions
Directive 2009/161/EU, and relative amendments & additions
CEPE Guidelines

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

Classi	fication	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H226 H301 H304 H311 H312 H314 H315 H315 H317 H318 H319 H331 H332 H335 H336 H341 H350 H373 H400 H410 H412	Highly flammable liquid and vapor. Flammable liquid and vapor. Toxic if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Toxic if inhaled. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Carc. 1B Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Muta. 2 Skin Corr. 1B Skin Irrit. 2	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 4 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 1 SKIN CORROSION/IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 2
Date of issue/Date of revision :	: 21, Jan, 2024	Date of previous issue: 03, Jan, 2024Version: 19.0418/33SHW-A4-EU-CLP44-ES

#### **SECTION 16: Other information**

	Skin Sens. 1 STOT RE 2	SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3
Date of printing	: 21, Jan, 2024.	
Date of issue/ Date of revision	: 21, Jan, 2024	
Date of previous issue	: 03, Jan, 2024	
	: If there is no previous va information.	lidation date please contact your supplier for more
Version	: 19.04	

#### Notice to reader

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

SUMI(s) will be added to the SDS for products if both the following conditions are met:

#### • The product is classified as hazardous for health

• The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

SUMI	
Safe Use of Mixtures	
Information for end-users	

**Title** : Industrial application of coatings and inks by other than spraying-Local exhaust ventilation This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (local exhaust ventilation only)

## **Operational conditions**

Place of use

: Indoor use

## **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventilation		
	(ies) duration		Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by other	PROC10, PROC13	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
than spraying					
Film formation - force drying,	PROC04	None	None	None	
than spraying Film formation - force drying, stoving and other technologies Cleaning	PROC04 PROC05	None	None Use eye protection according to EN 166.	None Wear suitable gloves tested to EN374.	

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

See chapter 8 of this Safety Data Sheet for specifications.



## Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

## SUMI Safe Use of Mixtures Information for end-users

#### : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Paint application on industrial line with fully-enclosed spraying

## **Operational conditions**

Title

Place of use : Indoor use

## **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum duration	Ventil	Ventilation		
			Туре	ach (air changes per hour)		
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent		
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards		
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Industrial application of coatings and inks by spraying	PROC07	None	None	None		
Film formation - force drying, stoving and other technologies	PROC02	None	None	None		
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Application equipment	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base		Industrial spray painting, enclosed		
Waste management	PROC08b	None	5 1	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



## Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base Industrial application of coatings and inks by other than spraying-Enclosed

## SUMI Safe Use of Mixtures Information for end-users

: Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (enclosed application)

## **Operational conditions**

Place of use

Title

: Indoor use

## **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	None	None	
Film formation - force drying, stoving and other technologies	PROC02	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base			Industrial ap	plication of coatings a	and inks by other than spraying-Enclosed
Application equipment cleaning outside booth	PROC05	None			Wear suitable gloves tested to EN374.
Waste management	PROC08b	None			Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



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SUMI	
Safe Use of Mixtures	
Information for end-users	

#### : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Paint application on industrial line with walk-in spray booth

## **Operational conditions**

Title

Place of use : Indoor use

## **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room rentilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	ocal exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room rentilation	5 - 10	
Cleaning	PROC05	More than 4 hours	ocal exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05		Enhanced (mechanical) room rentilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room rentilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
	PROC04	None	None	None	
Film formation - force drying, stoving and other technologies Cleaning	PROC04 PROC05	None	None Use eye protection according to EN 166.	None Wear suitable gloves tested to EN374.	

ZINC CLAD J984BS Epoxy Zinc Rich Primer - Base		- Base	Industrial spray painting, walk-in boo	
cleaning outside booth			according to EN 166.	tested to EN374.
Waste management	PROC08b	None		Wear suitable gloves tested to EN374.

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## SUMI Safe Use of Mixtures Information for end-users

: Professional application of coatings and inks by spraying-Outdoor

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Outdoor spray painting by professionals for general applications (e.g. decorative)

## **Operational conditions**

Title

Place of use : Outdoor use

## **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventila	Ventilation	
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	1 to 4 hours	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	1 to 4 hours	Outdoors	3 - 5	
Professional application of coatings and inks by spraying	PROC11	1 to 4 hours	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours	Outdoors	3 - 5	
Cleaning	PROC05	1 to 4 hours	Outdoors	3 - 5	
Waste management	PROC08a	1 to 4 hours	Outdoors	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Professional application of coatings and inks by spraying	PROC11	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

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## SUMI Safe Use of Mixtures Information for end-users

#### : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

## **Operational conditions**

Title

Place of use : Indoor use

## **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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## SUMI Safe Use of Mixtures Information for end-users

#### : Professional painting, outdoor brush/roller

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Outdoor painting by professionals with brush or roller

## **Operational conditions**

Title

Place of use : Outdoor use

## **Risk management measures (RMM)**

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Outdoors	3 - 5	
Professional application of coatings and inks by brush or roller	PROC10	More than 4 hours	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Outdoors	3 - 5	
Cleaning	PROC05	More than 4 hours	Outdoors	3 - 5	
Waste management	PROC08a	More than 4 hours	Outdoors	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Professional application of coatings and inks by brush or roller	PROC10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

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