## **SAFETY DATA SHEET**

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

1.1 Product identifier	
Product name	: ZINC CLAD IV 85% Epoxy Zinc-Rich Primer - Hardener
Product code	: B430A
1.2 Relevant identified us	es 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 sheet	of the safety data
Sherwin-Williams UK Limite Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	ed - Protective & Marine
The Sherwin-Williams Com Inver France SAS 2 Rue Jean Revaus - BP 8 Thouars CEDEX France	
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com
1.4 Emergency telephone	number
National advisory body/P	oison Center
Telephone number	: +359 2 9154 233
Supplier	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards i	dentification
2.1 Classification of the su	Ibstance or mixture
Product definition	: Mixture
<u>Classification according</u> Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	to Regulation (EC) No. 1272/2008 [CLP/GHS]
The product is classified as	s hazardous according to Regulation (EC) 1272/2008 as amended.

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

ZINC CLAD IV 85% Epoxy Zinc-Rich Primer - Hardener B430A

## **SECTION 2: Hazards identification**

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.</li> </ul>
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. Do not breathe vapor.
Response	: Collect spillage. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	<ul> <li>xylene</li> <li>2,4,6-tris(dimethylaminomethyl)phenol</li> <li>polyethlyenepolyamines</li> </ul>
Supplemental label elements	: FOR INDUSTRIAL USE ONLY

#### **Special packaging requirements**

Not applicable.

<u>2.3</u>	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**

3.2 Mixture :					
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Date of issue/Date of revision	: 21, Jan, 2024	Date of p	revious issue : 17, Sep, 2023	Version : 20 SHW-A4-EU-CLP44-	2/19 BG

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## SECTION 3. Composition/information on ingredients

SECTION 3: Composition/information on ingredients					
	EC: 238-878-4	≥25 - ≤50	STOT RE 1, H372	-	[1] [2]
powder Polyamidoamine	CAS: 14808-60-7 REACH #:	≥25 - ≤50	(inhalation) Skin Irrit. 2, H315		[1]
	01-2119972320-44	20 - 200	Eye Dam. 1, H318		[']
	EC: 500-191-5		Skin Sens. 1, H317		
	CAS: 68082-29-1		Aquatic Chronic 2, H411		
	REACH #:	≥10 - <20	Flam. Liq. 3, H226	ATE [Dermal] =	[1] [2]
	01-2119488216-32 EC: 215-535-7		Acute Tox. 4, H312 Acute Tox. 4, H332	1100 mg/kg ATE [Inhalation	
	CAS: 1330-20-7		Skin Irrit. 2, H315	(gases)] = 6700	
	Index: 601-022-00-9		Eye Irrit. 2, H319	ppm	
			STOT SE 3, H335		
			STOT RE 2, H373 Asp. Tox. 1, H304		
2,4,6-tris	REACH #:	<5	Acute Tox. 4, H302	ATE [Oral] = 1200	[1]
(dimethylaminomethyl)	01-2119560597-27		Skin Corr. 1C, H314	mg/kg	
phenol	EC: 202-013-9		Eye Dam. 1, H318		
	CAS: 90-72-2 Index: 603-069-00-0				
Ethylbenzene	REACH #:	≤5	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
5	01-2119489370-35		Acute Tox. 4, H332	(vapours)] = 11 mg/	
	EC: 202-849-4		STOT RE 2, H373	1	
	CAS: 100-41-4 Index: 601-023-00-4		(hearing organs) Asp. Tox. 1, H304		
	Index. 001-020-00-4		Aquatic Chronic 3,		
			H412		
	REACH #:	<1	Acute Tox. 4, H302	ATE [Oral] = 500	[1]
5	01-2119487919-13 EC: 292-588-2		Acute Tox. 4, H312 Skin Corr. 1B, H314	mg/kg ATE [Dermal] =	
	CAS: 90640-67-8		Eye Dam. 1, H318	1100 mg/kg	
	Index: 612-065-00-8		Skin Sens. 1, H317		
			Aquatic Chronic 3, H412		
	REACH #:	<1	Flam. Liq. 2, H225	-	[1] [2]
	01-2119471310-51 EC: 203-625-9		Skin Irrit. 2, H315 Repr. 2, H361d		
	CAS: 108-88-3		STOT SE 3, H336		
	Index: 601-021-00-3		STOT RE 2, H373		
			Asp. Tox. 1, H304		
			Aquatic Chronic 3, H412		
Heavy Aliphatic Solvent	REACH #:	≤0.3	Flam. Liq. 3, H226	EUH066: C ≥ 20%	[1]
	01-2119458049-33	_0.0	STOT SE 3, H336		r.1
	EC: 265-185-4		STOT RE 1, H372		
	CAS: 64742-82-1 Index: 649-330-00-2		(central nervous system (CNS))		
	muex. 049-330-00-2		Asp. Tox. 1, H304		
			Aquatic Chronic 2,		
			H411		
Fatty Acid Amine	EC: 288-315-1	<0.1	EUH066 Eye Dam. 1, H318		[1]
	CAS: 85711-55-3	<b>~</b> 0.1	Skin Sens. 1A, H317	-	[1]
			STOT RE 2, H373		
			See Section 16 for		
			the full text of the H		
			statements declared above.		
				1	

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

ZINC CLAD IV 85% Epoxy Zinc-Rich Primer - Hardener B430A

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

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>Туре</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 me	easures
General	: 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.
Eye contact	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	: 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.
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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

There are no data available on the mixture itself. 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.

Contains polyethlyenepolyamines. May produce an allergic reaction.

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

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

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 t	from	the substance or mixture
Hazards from the substance or mixture	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
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		Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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

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

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling	<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.</li> </ul>
	conducting type. Keep away from heat, sparks and flame. No sparking tools should be used.

## **SECTION 7: Handling and storage**

	<ul> <li>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).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> <li>Comply with the health and safety at work laws.</li> <li>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 explosive mixtures with air.</li> <li>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.</li> </ul>
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 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 38°C.</li> </ul>
7.3 Specific end use(s)	: Not available.
Recommendations	
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
Crystalline Silica, respirable powder Xylene, mixed isomers	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003. (Bulgaria, 6/2021). [respirable crystalline silica dust] Limit value 8 hours: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable dust Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). [Xylene (mixture of isomers), pure] Absorbed through skin. Limit value 8 hours: 221 mg/m <sup>3</sup> 8 hours.
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## **SECTION 8: Exposure controls/personal protection**

	Limit value 15 min: 442 mg/m <sup>3</sup> 15 minutes.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.
Ethylbenzene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 8 hours: 435 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 545 mg/m <sup>3</sup> 15 minutes.
Toluene	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed
	through skin.
	Limit value 15 min: 384 mg/m³ 15 minutes.
	Limit value 8 hours: 192 mg/m <sup>3</sup> 8 hours.
	Limit value 15 min: 100 ppm 15 minutes.
	Limit value 8 hours: 50 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
ethylbenzene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) Notes: significant skin resorption possible BLV: 2000 mg/g creatinine, mandelic acid and phenylglyoxylic acid – in total [in urine]. Sampling time: after the end of the exposure or the end of the work shift.
toluene	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021) BLV: 1.6 mmol/mmol creatinine, hippuric acid [in urine]. Sampling time: after the end of the exposure or the end of the work shift.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

: 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
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 population	Local
	DNEL	Short term	174 mg/m³	General	Systemic
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## **SECTION 8: Exposure controls/personal protection**

		Inhalation		population	
	DNEL	Long term Oral	1.5 mg/kg	General population	Systemic
,4,6-tris(dimethylaminomethyl) henol	DNEL	Long term Inhalation	0.53 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.15 mg/kg	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	0.13 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	0.13 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.075 mg/ kg	General population	Systemic
	DNEL	Short term Dermal	0.075 mg/ kg	General population	Systemic
	DNEL	Long term Oral	0.075 mg/ kg	General population	Systemic
oluene	DNEL	Short term	226 mg/m <sup>3</sup>	General	Systemic
	DIVEL	Inhalation	220 mg/m	population [Human via the	Cysternie
				environment]	
	DNEL	Short term Inhalation	226 mg/m³	General population	Local
				[Human via the	
				environment]	
	DNEL	Long term Dermal	226 mg/m <sup>3</sup>	General	Systemic
				population	
				[Human via the	
				environment]	C. veternie
	DNEL	Long term Inhalation	226 mg/kg	General	Systemic
		Innalation	bw/day	population [Human via the	
				environment]	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation	J J	population	5
				[Human via the	
				environment]	
	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population [Human via the	
				environment]	
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term	192 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Local
leavy Aliphatic Solvent	DNEL	Long term Inhalation	330 mg/m³	[Consumers] Workers	Systemic
	DNEL	Long term Dermal	44 mg/kg	Workers	Systemic
	DNEL	Long term	71 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
		1	1	I	1

## SECTION 8: Exposure controls/personal protection

DNEL	Long term Dermal	26 mg/kg	[Consumers] General population	Systemic
DNEL	Long term Oral	26 mg/kg	[Consumers] General population [Consumers]	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.046 mg/l	-
	Marine water	0.005 mg/l	-
	Sewage Treatment	0.262 mg/l	-
	Plant		
	Soil	0.025 mg/kg	-
Toluene	Fresh water sediment	0.68 mg/l	Assessment Factors
	Marine water sediment	0.68 mg/l	Assessment Factors
	Sewage Treatment	13.61 mg/l	Assessment Factors
	Plant		
	Soil	2.89 mg/kg	Assessment Factors
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-

#### 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 equivalent values.
Individual protection measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: 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 chemicals.</li> <li>Gloves for repeated or prolonged exposure (breakthrough time &gt; 240 min.)</li> <li>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</li> <li>Otherwise use: Butyl gloves &gt;0.3 mm</li> <li>For long term exposure or spills (breakthrough time &gt;480 min.): Use PE laminated gloves as under gloves</li> <li>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.</li> <li>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)</li> </ul>

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

	<ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.</li> <li>The breakthrough time must be greater than the end use time of the product.</li> <li>The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> </ul>
	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>
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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Colorless.
Odor	Solvent.
Odor threshold	: Not Available (Not Tested).
рН	: Not relevant/applicable due to nature of the product. insoluble in water.
Melting point/freezing point	: Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	: 136°C
Flash point	: Closed cup: 25°C [Pensky-Martens Closed Cup]
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## **SECTION 9: Physical and chemical properties**

Evaporation rate	0.8 (butyl acetate = 1)	
Flammability	Flammable liquid.	
Lower and upper explosion	LEL: 1% (Xylene, mixed isomers)	
limit	UEL: 7% (Xylene, mixed isomers)	
Vapor pressure	0.95 kPa (7.1 mm Hg)	
Relative vapor density	3.66 [Air = 1]	
Relative density	1.33	
Solubility(ies)		
Media	Result	
cold water	Not soluble	
Partition coefficient: n-octai water	Not relevant/applicable due to nature of the product.	
Auto-ignition temperature	Not relevant/applicable due to nature of the product.	
Decomposition temperature	Not relevant/applicable due to nature of the product.	
Viscosity	Kinematic (40°C): <20.5 mm²/s	
Explosive properties	Under normal conditions of storage and use, hazardous reactions will not	occur.
Oxidizing properties	Under normal conditions of storage and use, hazardous reactions will not	occur.
Particle characteristics		
Median particle size	Not relevant/applicable due to nature of the product.	
9.2 Other information		
Heat of combustion	7.587 kJ/g	
SECTION 10: Stability ar	activity	
10.1 Reactivity	specific test data related to reactivity available for this product or its ingred	lients.
10.2 Chemical stability	able under recommended storage and handling conditions (see Section 7).	
Total Stability		
10.3 Possibility of hazardous reactions	nder normal conditions of storage and use, hazardous reactions will not occ	ur.
10.4 Conditions to avoid	hen exposed to high temperatures may produce hazardous decomposition oducts.	
10.5 Incompatible materials	eep away from the following materials to prevent strong exothermic reaction idizing agents, strong alkalis, strong acids.	IS:
10.6 Hazardous decomposition products	ecomposition products may include the following materials: carbon monoxid rbon dioxide, smoke, oxides of nitrogen.	le,

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.

Contains polyethlyenepolyamines. May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-

#### Acute toxicity estimates

Route	ATE value	ATE value		
Oral	28677.64 mg/kg			
Dermal	7267.2 mg/kg			
Inhalation (gases)	44263.87 ppm			
Inhalation (vapors)	262.89 mg/l			

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat	-	mg 8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
dimethylaminomethyl) bhenol				ug	
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
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## **SECTION 11: Toxicological information**

	Skin - Severe irritant	Rat	-	0.25 MI	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-

#### Conclusion/Summary

#### **Sensitization**

No data available

#### Conclusion/Summary

: Not available.

: Not available.

#### **Mutagenicity**

No data available

#### Carcinogenicity No data available

Reproductive toxicity

#### No data available

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
Toluene Heavy Aliphatic Solvent	Category 3 Category 3	-	Narcotic effects Narcotic effects

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

Product/ingredient name	Category	Route of exposure	Target organs
Crystalline Silica, respirable powder	Category 1	inhalation	-
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2	-	hearing organs
Toluene	Category 2	-	-
Heavy Aliphatic Solvent	Category 1	-	central nervous system (CNS)
Fatty Acid Amine	Category 2	-	-

#### Aspiration hazard

Product/ingredient name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Heavy Aliphatic Solvent	ASPIRATION HAZARD - Category 1

## **SECTION 11: Toxicological information**

#### 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.

Product/ingredient name	Result	Species	Exposure
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours 🥄
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	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
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	, Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days

#### 12.2 Persistence and degradability

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

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Toluene	-	90	Low
Heavy Aliphatic Solvent	-	10 to 2500	High

#### 12.4 Mobility in soil

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

ZINC CLAD IV 85% Epoxy Zinc-Rich Primer - Hardener B430A

## **SECTION 12: Ecological information**

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 catalogue (EWC)	<ul> <li>waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*</li> </ul>
Disposal considerations	<ul> <li>Do not allow to enter drains or watercourses.</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> <li>If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.</li> <li>For further information, contact your local waste authority.</li> </ul>
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 catalogue (EWC)	<ul> <li>packaging containing residues of or contaminated by hazardous substances 15 01 10*</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with 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 (Polyamidoamine)	PAINT
14.3 Transport Hazard Class(es)/ Label(s)			3
14.4 Packing group		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.

#### **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.

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
ZINC CLAD IV 85% Epoxy Zinc-Rich Primer - Hardener	≥90	3
toluene	<1	48
formaldehyde	<0.1	72
benzene	<0.1	5
		72

Labeling

: Not applicable.

## **SECTION 15: Regulatory information**

## **Other EU regulations**

VOC content	(2010/75/EU)	:	20	w/w
			266	g/l

**Explosive precursors** : Not applicable.

### Seveso Directive

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
Crystalline Silica, respirable powder	,	respirable crystalline silica dust	Carc.	-

15.2 Chemical Safety : No Chemical Safety Assessment has been carried out.

Assessment

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

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative N/A = Not available
Key literature references and sources for data	: 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]

Classification	Justification	
Flam. Lig. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	
STOT RE 1, H372	Calculation method	
Asp. Tox. 1, H304	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

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

SECTION 16: Other Info	ormation
Full text of abbreviated H	: H225 Highly flammable liquid and vapor.
statements	H226 Flammable liquid and vapor.
	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H312 Harmful in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H361d Suspected of damaging the unborn child.
	H372 Causes damage to organs through prolonged or repeated exposure.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H411 Toxic to aquatic life with long lasting effects.
	H412 Harmful to aquatic life with long lasting effects.
	EUH066 Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	<ul> <li>Acute Tox. 4</li> <li>Aquatic Chronic 2</li> <li>Aquatic Chronic 3</li> <li>Asp. Tox. 1</li> <li>Eye Dam. 1</li> <li>Eye Dam. 1</li> <li>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</li> <li>Eye Irrit. 2</li> <li>FLAMMABLE LIQUIDS - Category 2</li> <li>Flam. Liq. 2</li> <li>FLAMMABLE LIQUIDS - Category 3</li> <li>Repr. 2</li> <li>TOXIC TO REPRODUCTION - Category 1B</li> <li>Skin Corr. 1B</li> <li>SKIN CORROSION/IRRITATION - Category 1C</li> <li>Skin Sens. 1</li> <li>SKIN SENSITIZATION - Category 1</li> <li>SKIN SENSURE) - Category 1</li> <li>STOT RE 2</li> <li>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> <li>STOT SE 3</li> </ul>
Date of printing	EXPOSURE) - Category 3 : 21, Jan, 2024.
Date of issue/ Date of revision	: 21, Jan, 2024
Date of previous issue	: 17, Sep, 2023
	: If there is no previous validation date please contact your supplier for more information.
Version	: 20
Notice to reader	

#### 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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II ZINC CLAD IV 85% Epoxy Zinc-Rich Primer - Hardener B430A

## **SECTION 16: Other information**

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.