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 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 o sheet	^t the safety data	
Sherwin-Williams UK Limited Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	I - Protective & Marine	
The Sherwin-Williams Comp Inver France SAS 2 Rue Jean Revaus - BP 800 Thouars CEDEX France		
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com	
1.4 Emergency telephone n	umber	
National advisory body/Po	ison Center	
Telephone number	: 112 - Request Poison Information	
<u>Supplier</u>		
Telephone number	: +(44)-870-8200 418	
Hours of operation	: Emergency contact available 24 hours a day	
SECTION 2: Hazards id	entification	
2.1 Classification of the sub	stance or mixture	
Product definition	: Mixture	
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	Regulation (EC) No. 1272/2008 [CLP/GHS]	

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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 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	 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.
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	 xylene 2,4,6-tris(dimethylaminomethyl)phenol polyethlyenepolyamines
Supplemental label elements	: 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

:

3.2 Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-facto and ATEs	rs Type
Date of issue/Date of revision	: 21, Jan, 2024	Date of pr	evious issue : 17, Sep, 202	3 Version : 20 SHW-A4-EU-CL	

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SECTION 2. Composition/information on ingredients

SECTION 3: Composition/information on ingredients					
Crystalline Silica, respirable		≥25 - ≤50	STOT RE 1, H372	-	[1] [2]
powder	CAS: 14808-60-7	≥25 - ≤50	(inhalation)		[4]
Polyamidoamine	REACH #: 01-2119972320-44	220 - ≥00	Skin Irrit. 2, H315 Eye Dam. 1, H318	-	[1]
	EC: 500-191-5		Skin Sens. 1, H317		
	CAS: 68082-29-1		Aquatic Chronic 2,		
			H411		
Xylene, mixed isomers	REACH #: 01-2119488216-32	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312	ATE [Dermal] = 1100 mg/kg	[1] [2]
	EC: 215-535-7		Acute Tox. 4, H332	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	r.1
phenol	EC: 202-013-9		Eye Dam. 1, H318		
	CAS: 90-72-2				
Ethylbenzene	Index: 603-069-00-0 REACH #:	≤5	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
Euryidenzene	01-2119489370-35	_0	Acute Tox. 4, H332	(vapours)] = 11 mg/	ני <u>ן</u> נאן
	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		
Amines, polyethylenepoly-,	REACH #:	<1	Acute Tox. 4, H302	ATE [Oral] = 500	[1]
triethylenetetramine fraction			Acute Tox. 4, H312	mg/kg	
	EC: 292-588-2		Skin Corr. 1B, H314	ATE [Dermal] =	
	CAS: 90640-67-8 Index: 612-065-00-8		Eye Dam. 1, H318 Skin Sens. 1, H317	1100 mg/kg	
	Index. 012-003-00-0		Aquatic Chronic 3,		
			H412		
Toluene	REACH #:	<1	Flam. Liq. 2, H225	-	[1] [2]
	01-2119471310-51		Skin Irrit. 2, H315		
	EC: 203-625-9 CAS: 108-88-3		Repr. 2, H361d STOT SE 3, H336		
	Index: 601-021-00-3		STOT RE 2, H373		
			Asp. Tox. 1, H304		
			Aquatic Chronic 3,		
Heavy Aliphatic Solvent	REACH #:	≤0.3	H412 Flom Lig 2 H226	EUH066: C ≥ 20%	[4]
Heavy Aliphatic Solvent	01-2119458049-33	≤0.5	Flam. Liq. 3, H226 STOT SE 3, H336	EUH000. C 2 20%	[1]
	EC: 265-185-4		STOT RE 1, H372		
	CAS: 64742-82-1		(central nervous		
	Index: 649-330-00-2		system (CNS))		
			Asp. Tox. 1, H304		
			Aquatic Chronic 2, H411		
			EUH066		
Fatty Acid Amine	EC: 288-315-1	<0.1	Eye Dam. 1, H318	-	[1]
	CAS: 85711-55-3		Skin Sens. 1A, H317		
			STOT RE 2, H373		
			See Section 16 for the full text of the H		
			statements declared		
			above.		
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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

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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	 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.
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	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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 ₂ , powders, water spray or mist.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	ron	n 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	 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.
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SECTION 7: Handling and storage

	 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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. 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. Information on fire and explosion protection Vapors are heavier than air and may spread along floors. Vapors may form 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	 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. 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.
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	
Crystalline Silica, respirable powder Xylene, mixed isomers	Work environment authority Regulation 2018:1 (Sweden, 9/2021). TWA: 0.1 mg/m ³ 8 hours. Form: respirable fraction Work environment authority Regulation 2018:1 (Sweden, 9/2021). [xylene] Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 221 mg/m ³ 8 hours.	
Date of issue/Date of revision : 21, Jan, 2024	STEL: 100 ppm 15 minutes. Date of previous issue : 17, Sep, 2023 Version : 20	6/19
	SHW-A4-EU-CLP44-SE	

SECTION 8: Exposure controls/personal protection

	STEL: 442 mg/m ³ 15 minutes.
Ethylbenzene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin.
	,
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m ³ 15 minutes.
Tabaaaa	, and the second s
Toluene	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. Ototoxicant.
	TWA: 50 ppm 8 hours.
	TWA: 192 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
	STEL: 384 mg/m ³ 15 minutes.

Biological exposure indices

No exposure indices known.

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects	
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m ³	Workers	Systemic 🥄	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic	
				population		
	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 Inhalation	174 mg/m³	General population	Systemic	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic	
2,4,6-tris(dimethylaminomethyl) phenol	DNEL	Long term Inhalation	0.53 mg/m³	Workers	Systemic	
F	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	0.13 mg/m ³	General	Systemic	
		Inhalation		population	-	
	DNEL	Short term	0.13 mg/m ³	General	Systemic	
		Inhalation	_	population		
	DNEL	Long term Dermal	0.075 mg/	General	Systemic	
ate of issue/Date of revision: 21, Jan, 2024Date of previous issue: 17, Sep, 2023Version: 207/19						

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

			kg	population	
	DNEL	Short term Dermal	0.075 mg/ kg	General population	Systemic
	DNEL	Long term Oral	0.075 mg/	General	Systemic
Toluene	DNEL	Short term Inhalation	kg 226 mg/m³	General population	Systemic
				[Human via the environment]	
	DNEL	Short term Inhalation	226 mg/m³	General population	Local
				[Human via the environment]	
	DNEL	Long term Dermal	226 mg/m ³	General population [Human via the	Systemic
	DNEL	Long term Inhalation	226 mg/kg bw/day	environment] General population [Human via the	Systemic
	DNEL	Long term	56.5 mg/m³	environment] General	Systemic
		Inhalation		population [Human via the environment]	
	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	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		Systemic
	DNEL	Long term Inhalation	56.5 mg/m ³	General population [Consumers]	Local
Heavy Aliphatic Solvent	DNEL	Long term Inhalation	330 mg/m³	Workers	Systemic
	DNEL DNEL	Long term Dermal Long term Inhalation	44 mg/kg 71 mg/m³	Workers General population	Systemic Systemic
	DNEL	Long term Dermal	26 mg/kg	[Consumers] General population [Consumers]	Systemic
	DNEL	Long term Oral	26 mg/kg	[Consumers] General population [Consumers]	Systemic

SECTION 8: Exposure controls/personal protection

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	C C	
	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 mea	asures
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	 Gloves for short term exposure/splash protection (less than 10 min.): Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with 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.
Date of issue/Date of revision	: 21, Jan, 2024 Date of previous issue : 17, Sep, 2023 Version : 20 9/19

SECTION 8: Exposure controls/personal protection

	 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	 Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
Other skip protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: 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

Date of issue/Date of revision : 2	1, Jan, 2024 Date of previous issue : 17, Sep, 2023 Version : 20 1	0/19
Relative density	: 1.33	
Relative vapor density	: 3.66 [Air = 1]	
Vapor pressure	: 0.95 kPa (7.1 mm Hg)	
Lower and upper explosion limit	: LEL: 1% (Xylene, mixed isomers) UEL: 7% (Xylene, mixed isomers)	
Flammability	Flammable liquid.	
Evaporation rate	: 0.8 (butyl acetate = 1)	
Flash point	Closed cup: 25°C [Pensky-Martens Closed Cup]	
Initial boiling point and boiling range	: 136°C	
Melting point/freezing point	: Not relevant/applicable due to nature of the product.	
рH	: Not relevant/applicable due to nature of the product. insoluble in water.	
Odor threshold	: Not Available (Not Tested).	
Odor	: Solvent.	
Color	: Colorless.	
Physical state	: Liquid.	
<u>Appearance</u>		

5

SECTION 9: Physical and chemical properties

Solubility(ies)

Solubility(les)		
Media		Result
cold water		Not soluble
Partition coefficient: n-octan water	ol/ :	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 an	d re	activity
10.1 Reactivity	: No	o specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: St	able under recommended storage and handling conditions (see Section 7).
10.3 Possibility of nazardous reactions	: Uı	nder normal conditions of storage and use, hazardous reactions will not occur.
0.4 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 reactions: kidizing agents, strong alkalis, strong acids.
10.6 Hazardous lecomposition products		ecomposition products may include the following materials: carbon monoxide, arbon dioxide, smoke, oxides of nitrogen.
Refer to Section 7: HANDLING	AN	D 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.

SECTION 11: Toxicological information

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
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	-
				mg	
	Skin - Mild irritant	Rat	-	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) phenol				ug	
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Severe irritant	Rat	-	0.25 MI	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
2	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	-
		Ū,		uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-

Conclusion/Summary : Not available.

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SECTION 11: Toxicological information

Sensitization

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
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

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 pugio	48 hours 🥄
	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 - Daphnia magna	21 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum	
No data available							
Conclusion/Summary	: Not available.	4		Į		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

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.

SECTION 12: Ecological information

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 metho	ds		
<u>Product</u>			
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)	:	waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*	
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 catalogue (EWC)	:	packaging containing residues of or contaminated by hazardous substances 15 01 10*	
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	ΙΑΤΑ
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
Date of issue/Date of rev	ision : 21, Jan, 2024 D	tate of previous issue : 17, Sep, 2023	Version : 20 15/19

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SECTION 14: Transport information

SECTION 14: IT	ansport information		
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.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

<u>Annex XIV</u>

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 IV 85% Epoxy Zinc-Rich Primer - Hardener	≥90	3
toluene	<1	48
formaldehyde	<0.1	72
benzene	<0.1	5
		72

Labeling	: Not applicable.
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Other EU regulations				
VOC content	(2010/75/EU)	:	20	w/w
			266	a/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

SECTION 15: Regulatory information

<u> </u>				
Product/ingredient name	List name	Name on list	Classification	Notes
Crystalline Silica, respirable powder	Sweden Occupational Exposure Limits	quartz respirable fraction	Carc. C	-
Ordinance on Thermoset Plastics	: Regulation AFS 2014:43 including its amendments is applicable when working with this product.			
15.2 Chemical Safety Assessment	: No Chemical Safety Assessment has been carried out.			

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]

Clas	sification	Justification	
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		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method	
Full text of abbreviated H statements	: H225 H226 H302 H304 H312 H314 H315 H317 H318 H319 H332 H335 H336	Highly flammable liquid and vapor. Flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. 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. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.	
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0	Desident		4007/0000		
Conforms to	Regulation	(EC) NO.	1907/2006	(REACH), Anı	ıex II

SECTION 16: Other information			
	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]	 Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Sens. 1 SKIN SENS.11 SKIN SENS.12 SKIN SENS.14 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 Skin Sens. 1 SKIN SENSITIZATION - Category 1 Skin Sens. 1 SKIN SENSITIZATION - Category 1 STOT RE 2 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	: 17, Sep, 2023		
	 If there is no previous validation date please contact your supplier for more information. 		
Version	: 20		

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,

SECTION 16: Other information

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.