SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: TILE-CLAD® High Solids Enamel (Part B) - Eg-Shel Hardener
Product code	: B60VZ75
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier of sheet	the safety data
Mfg. in U.S.A and exported by The Sherwin-Williams Compa 101 Prospect Avenue N.W. Cleveland, OH 44115	
EU Only Representative: Vals Zuiveringweg 89 8243 PE Lelystad P.O. Box 2139 The Netherlands Phone: +31 (0)320 29 22 00	par B.V.
e-mail address of person responsible for this SDS	: sds@sherwin.com
1.4 Emergency telephone nu	mber
National advisory body/Pois	son Center
Telephone number	: +431 406 43 43
<u>Supplier</u>	
Telephone number	: +1 703-741-5970
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards ide	entification
2.1 Classification of the subs	stance or mixture
Product definition	: Mixture
	Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

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SECTION 2: Hazards identification

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

2.2 Label elements

Hazard pictograms



Signal word	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 irritation. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.
Response	IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Storage	Not applicable.
Disposal	Not applicable.
Hazardous ingredients	Epoxy Polymer Epoxy Polymer Xylene, mixed isomers Solvent naphtha (petroleum), light arom. Phenol, isobutylenated methylstyrenated Butyl Glycidyl Ether Cumene
Supplemental label	FOR INDUSTRIAL USE ONLY

elements

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 not result in classification	: None known.

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SECTION 3: Composition/information on ingredients :

3.2 Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Epoxy Polymer	CAS: 67924-34-9	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Epoxy Polymer	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≤14	Skin Sens. 1, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1] [2]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 CAS: 128601-23-0 Index: 649-356-00-4	≤6.5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Phenol, isobutylenated methylstyrenated	EC: 270-604-9 CAS: 68457-74-9	≤5	STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373 (skin) Asp. Tox. 1, H304	-	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Light Aromatic Hydrocarbons	REACH #: 01-2119455851-35 CAS: - Index: 649-356-00-4	≤2.2	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Butyl Glycidyl Ether	EC: 219-376-4 CAS: 2426-08-6 Index: 603-039-00-7	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412	ATE [Oral] = 1660 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
1,2,4-Trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤1.6	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 18 mg/ I	[1] [2]
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SECTION 3: Composition/information on ingredients

Cumene	EC: 202-704-5 CAS: 98-82-8 Index: 601-024-00-X	≤0.3	Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 See Section 16 for the full text of the H	-	[1] [2]
			statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of

equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: 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	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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 bis-[4-(2,3-epoxipropoxi)phenyl]propane, butyl glycidyl ether. May produce an allergic reaction.

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

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.
F O Ou saist has suisting a	from the substance or mixture
5.2 Special nazards arising i	
<i>5.2 Special nazards arising t</i> Hazards from the substance or mixture	 Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

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, pro	e equipment and emergency procedures	
For non-emergency personnel	clude sources of ignition and ventilate the area. Avoid breathing vapor of fer to protective measures listed in sections 7 and 8.	or mist.
	ep unnecessary and unprotected personnel from entering.	
For emergency responders	specialized clothing is required to deal with the spillage, take note of any ormation in Section 8 on suitable and unsuitable materials. See also th ormation in "For non-emergency personnel".	
6.2 Environmental precautions	not allow to enter drains or watercourses. If the product contaminates ers, or sewers, inform the appropriate authorities in accordance with loc gulations.	
6.3 Methods and materials for containment and cleaning up	ntain and collect spillage with non-combustible, absorbent material e.g. rth, vermiculite or diatomaceous earth and place in container for dispos cording to local regulations (see Section 13). Preferably clean with a de oid using solvents.	al
6.4 Reference to other sections	e Section 1 for emergency contact information. e Section 8 for information on appropriate personal protective equipme e Section 13 for additional waste treatment information.	nt.

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. 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 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.
7.3 Specific end use(s) Recommendations Industrial sector specific solutions	: Not available. : 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.

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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
Epoxy Polymer	Regulation on Limit Values - MAC (Austria, 4/2021). [1,2-Epoxy- 3-(tolyloxy)propane (all isomers)] TWA: 10 ppm 8 hours. TWA: 70 mg/m ³ 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. PEAK: 140 mg/m ³ , 4 times per shift, 15 minutes.
Xylene, mixed isomers	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes (all isomers)] PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 221 mg/m ³ 8 hours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours. CEIL: 200 ppm, 8 times per shift, 5 minutes.
	CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes.
Butyl Glycidyl Ether	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin. Skin sensitizer.
1,2,4-Trimethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021).
•	[Trimethylbenzenes (all isomers)]
	PEAK: 30 ppm, 4 times per shift, 15 minutes.
	TWA: 100 mg/m ³ 8 hours.
	PEAK: 150 mg/m ³ , 4 times per shift, 15 minutes.
0	TWA: 20 ppm 8 hours.
Cumene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m ³ 8 hours.
	PEAK: 50 ppm, 4 times per shift, 15 minutes.
	PEAK: 250 mg/m ³ , 4 times per shift, 15 minutes.

Biological exposure indices

Product/ingredient nam	Exposure indices
xylene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.
procedures EL as va atr of (W for do reu : Re	ence should be made to monitoring standards, such as the following: ean Standard EN 689 (Workplace atmospheres - Guidance for the sment of exposure by inhalation to chemical agents for comparison with limit a and measurement strategy) European Standard EN 14042 (Workplace pheres - Guide for the application and use of procedures for the assessment osure to chemical and biological agents) European Standard EN 482 place atmospheres - General requirements for the performance of procedures e measurement of chemical agents) Reference to national guidance nents for methods for the determination of hazardous substances will also be ed. ar monitoring of all work areas should be carried out at all times, including that may not be equally ventilated.

SECTION 8: Exposure controls/personal protection

DNELs/DMELs

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	221 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	289 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
				population	
Solvent naphtha (petroleum), light	DNEL	Long term Dermal	25 mg/kg	Workers	Systemic
arom.			bw/day		
	DNEL	Long term	150 mg/m³	Workers	Systemic
		Inhalation	4.4		0
	DNEL	Long term Dermal	11 mg/kg	General	Systemic
			bw/day	population	
			00 / 3	[Consumers]	0
	DNEL	Long term	32 mg/m³	General	Systemic
		Inhalation		population	
			4.4	[Consumers]	O. un tra mail a
	DNEL	Long term Oral	11 mg/kg	General	Systemic
			bw/day	population	
Light Aromatic Hydrocarbana	DNEL	Long torm Dormal	25 mg/kg	[Consumers] Workers	Svotomic
Light Aromatic Hydrocarbons	DNEL	Long term Dermal	25 mg/kg bw/day	vvorkers	Systemic
	DNEL	ong torm	150 mg/m ³	Workers	Svetomia
	DINEL	Long term Inhalation	150 mg/m²	VVUIKEIS	Systemic
	DNEL	Long term Dermal	11 mg/kg	General	Systemic
	DINEL		bw/day	population	Systemic
			Dwiday	[Consumers]	
	DNEL	Long term	32 mg/m³	General	Systemic
		Inhalation	5∠ mg/m	population	Cysternic
				[Consumers]	
	DNEL	Long term Oral	11 mg/kg	General	Systemic
	DINEL		bw/day	population	Cysternic
			Dw/uay		
				[Consumers]	

PNECs

No PNECs available.

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 measures

SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure	controls/personal protection
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	 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. 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.
	: 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	

SECTION 8: Exposure controls/personal protection

	 Application methods: Brush or roller. Approved/certified respirator with organic vapor cartridge. Filter type: A2 P2 (EN14387). Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying with on groups of the start of the second second
Environmental exposure controls	with an approved standard if a risk assessment indicates this is necessary.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

	cold water		Not soluble	l
	Media		Result	
9	Solubility(ies)	:		
ŀ	Relative density	:	1.38	
ł	Relative vapor density	:	3.66 [Air = 1]	
١	/apor pressure	:	0.95 kPa (7.1 mm Hg)	
	Lower and upper explosion imit	:	LEL: 0.7% (Light Aromatic Hydrocarbons) UEL: 7% (Xylene, mixed isomers)	
ŀ	Flammability	:	Flammable liquid.	
E	Evaporation rate	:	0.8 (butyl acetate = 1)	
ŀ	Flash point	:	Closed cup: 37°C [Pensky-Martens Closed Cup]	
	nitial boiling point and poiling range	:	136°C	
1	Melting point/freezing point	:	Not relevant/applicable due to nature of the product.	
ŀ	bH	:	Not relevant/applicable due to nature of the product. insoluble in water.	
	Odor threshold		Not Available (Not Tested).	
(Odor	:	Solvent.	
(Color	:	Clear.	
ŀ	Physical state	:	Liquid.	
ļ	Appearance			
	1 2			

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

Auto-ignition temperature

Ingredient name		°C	°F	r	Method	
Solvent naphtha (petroleum), light aro	ım.	450	842			
Decomposition temperature	: Not re	levant/applic	cable due to natu	ure of the pro	oduct.]
Viscosity	: Kinem	natic (40°C):	<20.5 mm²/s			
Explosive properties	: Under	normal con	ditions of storage	e and use, h	azardous reactions will not oc	cur.
Oxidizing properties	: Under	normal con	ditions of storage	e and use, h	azardous reactions will not oc	cur.
Particle characteristics						
Median particle size	: Not re	levant/applic	able due to natu	ire of the pro	oduct.	
ate of issue/Date of revision : 18,	Apr, 2024	Date	of previous issue	:04, Feb, 202	24 Version : 15	10/19

SECTION 9: Physical and chemical properties

9.2 Other information

Heat of combustion

: 8.211 kJ/g

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

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

SECTION 11: Toxicological information

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis-[4-(2,3-epoxipropoxi)phenyl]propane, butyl glycidyl ether. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy Polymer	LD50 Dermal	Rabbit	20 g/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-
Phenol, isobutylenated methylstyrenated	LD50 Dermal	Rabbit	>20000 mg/kg	-
Date of issue/Date of revision :1	8, Apr, 2024 Date of previou	is issue : 04, Feb	,	 on :15 11/19 4-EU-CLP44-AT

SECTION 11: Toxicological information

Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-			
	LD50 Oral	Rat	3500 mg/kg	-			
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-			
Butyl Glycidyl Ether	LD50 Oral	Rat	1660 mg/kg	-			
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours			
	LD50 Oral	Rat	5 g/kg	-			
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m³	4 hours			
	LD50 Oral	Rat	1400 mg/kg	-			

Acute toxicity estimates

Route	ATE value
Oral	102140.83 mg/kg
Dermal 9487.25 mg/kg	
Inhalation (gases) 57785.96 ppm	
Inhalation (vapors)	244.49 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy Polymer	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
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	
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
light arom.				uL	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				uL	
Butyl Glycidyl Ether	Eyes - Mild irritant	Rabbit	-	91 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Skin - Mild irritant	Rabbit	-	72 hours 454	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
0	The second state of the second	DULK		mg	
Cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Even Mild instant	Dabbit		mg	
	Eyes - Mild irritant	Rabbit	-	86 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
	Skin - Moderate irritant	Rabbit		mg 24 hours 100	
		Rabbit	-		-
				mg	
Conclusion/Summary	: Not available.				

Conclusion/Summary Sensitization

i noture

No data available

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SECTION 11: Toxicological information

Conclusion/Summary

Mutagenicity

: Not available.

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
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Phenol, isobutylenated methylstyrenated	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Butyl Glycidyl Ether	Category 3	-	Respiratory tract irritation
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
Cumene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
Phenol, isobutylenated methylstyrenated	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Cumene	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	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	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
Butyl Glycidyl Ether	Acute EC50 2 mg/l Marine water	Crustaceans - Acartia tonsa	48 hours
	Acute EC50 3.9 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - <i>Elasmopus</i> pectenicrus - Adult	48 hours
	Acute LC50 7720 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Cumene	Acute EC50 7.4 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 2700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
No data available					
Conclusion/Summary	: Not available.	1			
Product/ingredient name	Aquatic half-life		Photolysis	Bi	odegradability
Xylene, mixed isomers Ethylbenzene Light Aromatic Hydrocarbons	- -		- - -	Re	eadily eadily eadily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Solvent naphtha (petroleum),	-	10 to 2500	High
light arom.			
Light Aromatic Hydrocarbons	-	10 to 2500	High
1,2,4-Trimethylbenzene	-	243	Low
Cumene	-	35.48	Low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

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 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.	
<u>Packaging</u>			
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 RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Date of issue/Date of revi	sion : 18, Apr, 2024 D	ate of previous issue : 04, Feb, 2024	Version : 15 15/19 SHW-A4-EU-CLP44-AT

		••				
360VZ75						
SECTION 14: Tra	insport information					
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3			
14.4 Packing group	Ш	Ш	Ш			
14.5 Environmental hazards	No.	No.	No.			
Additional information	Tunnel code D/E	Emergency schedules F-E, S-E	-			

^{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

<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]
TILE-CLAD® High Solids Enamel (Part B)	≥90	3
0 ()		28
cumene	≤0.3	28
toluene	≤0.1	48
4,4'-isopropylidenediphenol	<0.01	66

Labeling

: Restricted to professional users.

Other EU regulations

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VOC content	(2010/75/EU)	:	23	w/w
			318	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

SECTION 15: Regulatory information

<u> </u>				
Product/ingredient name	List name	Name on list	Classification	Notes
Butyl Glycidyl Ether	Austria Occupational Exposure Limits	1-n-Butoxy- 2,3-epoxypropan; Butylglycidether	Carc. B	-

15.2 Chemical Safety Assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

	Indicates information	n that has changed	from previously issued version.
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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]

Class	sification	Justification
Flam. Liq. 3, H226		On basis of test data
Skin Irrit. 2, H315		Calculation method
Eye Irrit. 2, H319		Calculation method
Skin Sens. 1, H317		Calculation method
Muta. 2, H341		Calculation method
Carc. 1B, H350		Calculation method
STOT SE 3, H335		Calculation method
STOT RE 2, H373		Calculation method
Asp. Tox. 1, H304		Calculation method
Aquatic Chronic 3, H412		Calculation method
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.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	H341	Suspected of causing genetic defects.
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SECTION	16: Other inforr	nation
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SECTION 16: Other Information				
	H350May cause cancer.H351Suspected of causing cancer.H373May cause damage to organs through prolonged or repeated exposure.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.			
Full text of classifications [CLP/GHS]	 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 1B Carc. 2 Eye Irrit. 2 Flam. Liq. 3 Muta. 2 Stor RE 2 Skin Sens. 1 STOT RE 2 STOT SE 3 Acute Tox. 1 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Carc. 2 CARCINOGENICITY - Category 1B Carc. 2 CARCINOGENICITY - Category 2 Fiam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Fiam. Start Correction of the second start of the			
Date of printing	: 18, Apr, 2024.			
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	 If there is no previous validation date please contact your supplier for more information. 			
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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 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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II TILE-CLAD® High Solids Enamel (Part B) - Eg-Shel Hardener B60VZ75

SECTION 16: Other information

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.

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