# SAFETY DATA SHEET

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

1.1 Product identifier		
Product name	: HARDENER FOR DURASPAR PRIME EPOXY HIGH BUILD	
Product code	: FC7220A	
1 2 Polovant identified use	es of the substance or mixture and uses advised against	
Material uses	: Paint or paint related material.	
Waterial uses	<ul> <li>Faint of paint related material.</li> <li>Industrial use only.</li> </ul>	
1.3 Details of the supplier of sheet	of the safety data	
Sherwin-Williams UK Limite Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	ed - Protective & Marine	
The Sherwin-Williams Com Inver France SAS 2 Rue Jean Revaus - BP 80 Thouars CEDEX France		
e-mail address of person responsible for this SDS		
1.4 Emergency telephone r	number	
National advisory body/Pe	<u>'oison Center</u>	
Telephone number	: 421 2 5477 4166	
<u>Supplier</u>		
Telephone number	: +(44)-870-8200 418	
Hours of operation	: Emergency contact available 24 hours a day	
SECTION 2: Hazards id	dentification	
2.1 Classification of the su	Ibstance or mixture	
Product definition	: Mixture	
	to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317		
STOT SE 3, H335 STOT RE 2, H373		
Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
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## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II HARDENER FOR DURASPAR PRIME EPOXY HIGH BUILD FC7220A

# **SECTION 2: Hazards identification**

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

# 2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.</li> </ul>
Response	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Xylene, mixed isomers 1-Butanol Epoxy Polymer
Supplemental label elements	: FOR INDUSTRIAL USE ONLY
Special packaging requiren	nents
NI A COMPANIEL	

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.

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

:

## 3.2 Mixture

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II HARDENER FOR DURASPAR PRIME EPOXY HIGH BUILD FC7220A

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
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]
1-Butanol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1] [2]
Epoxy Polymer	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≤10	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]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	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]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 See Section 16 for the full text of the H statements declared	ATE [Oral] = 1200 mg/kg	[1]

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General	<ul> <li>In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.</li> </ul>
Eye contact	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

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# **SECTION 4: First aid measures**

Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

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

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

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

See toxicological information (Section 11)

SECTION 5: Firefighting	easures	
5.1 Extinguishing media Suitable extinguishing media	Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray or mist.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising f	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.	C
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.	
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# **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.
		Keep unnecessary and unprotected personnel from entering.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
		-

# SECTION 7: Handling and storage

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

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

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

7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations.</li> <li>Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids.</li> <li>Additional information on storage conditions</li> <li>Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking.</li> <li>Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> </ul>
	Contaminated absorbent material may pose the same hazard as the spilled product.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial soctor specific	

# *Industrial sector specific* : Not available. *solutions*

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

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

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

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

## 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values		
Xylene, mixed isomers	Government regulation SR c. 355/2006 (Slovakia, 9/2020). [xylene, mixed isomers] Absorbed through skin. TWA: 221 mg/m <sup>3</sup> , (xylene, mixed isomers) 8 hours. TWA: 50 ppm, (xylene, mixed isomers) 8 hours. STEL: 442 mg/m <sup>3</sup> , (xylene, mixed isomers) 15 minutes. STEL: 100 ppm, (xylene, mixed isomers) 15 minutes.		
1-Butanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Butyl alkohols] TWA: 310 mg/m <sup>3</sup> , (Butyl alkohols) 8 hours. TWA: 100 ppm, (Butyl alkohols) 8 hours.		
Ethylbenzene	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 442 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes.		

## **Biological exposure indices**

Product/ingredient name	Exposure indices
xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine].
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	Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
butan-1-ol	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 15.34 µmol/mmol creatinine, n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 3.13 µmol/mmol creatinine, n-butyl alcohol [in urine]. Sampling time: before the next work shift. BLV: 2 mg/g creatinine, n-butyl alcohol [in urine]. Sampling time: before the next work shift.
ethylbenzene	<ul> <li>Government regulation SR c. 355/2006 (Slovakia, 9/2020)</li> <li>BLV: 799 µmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 7.44 µmol/mmol creatinine, 2 or 4-etylfenol [in urine].</li> <li>Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 1067 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 10590 µmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine].</li> <li>Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 1600 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 1600 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> <li>BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.</li> </ul>
proceduresEuropean Stan assessment of values and mea atmospheres - of exposure to (Workplace atm for the measure documents for required.:Regular monitor	uld be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be oring of all work areas should be carried out at all times, including not be equally ventilated.

# SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m <sup>3</sup>	Workers	Systemic
•	DNEL	Long term Dermal	125 mg/kg	General	Systemic
		5	0.0	population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	-		
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	_		-
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	65.3 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	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	
2,4,6-tris(dimethylaminomethyl)	DNEL	Long term	0.53 mg/m <sup>3</sup>	Workers	Systemic
phenol		Inhalation			
	DNEL	Short term	2.1 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	0 0	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg	Workers	Systemic
	DNEL	Long term	0.13 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Short term	0.13 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.075 mg/	General	Systemic
			kg	population	
	DNEL	Short term Dermal	0.075 mg/	General	Systemic
			kg	population	
	DNEL	Long term Oral	0.075 mg/	General	Systemic
			kg	population	

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.046 mg/l	-
	Marine water	0.005 mg/l	-
	Sewage Treatment Plant	0.262 mg/l	-
	Soil	0.025 mg/kg	-

## 8.2 Exposure controls

Appropriate engineering controls	<ul> <li>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.</li> <li>Users are advised to consider national Occupational Exposure Limits or other are invited and used.</li> </ul>
	equivalent values.
Individual protection mea	sures
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.
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#### **SECTION 8: Exposure controls/personal protection** 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 hightemperature-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. : Appropriate footwear and any additional skin protection measures should be Other skin protection selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, particulate filter respirator complying with an approved Respiratory protection 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

*Environmental exposure* : Do not allow to enter drains or watercourses. *controls* 

respirator.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II HARDENER FOR DURASPAR PRIME EPOXY HIGH BUILD FC7220A

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

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Various	
Odor	Solvent.	
Odor threshold	Not Available (Not Tested).	
рH	Not relevant/applicable due to nature of the product. insoluble in water.	
Melting point/freezing point	Not relevant/applicable due to nature of the product.	
Initial boiling point and boiling range	: 117°C	
Flash point	Closed cup: 28°C [Pensky-Martens Closed Cup]	
Evaporation rate	0.8 (butyl acetate = 1)	
Flammability	Flammable liquid.	
Lower and upper explosion limit	LEL: 1% (Xylene, mixed isomers) UEL: 11.2% (1-Butanol)	
Vapor pressure	0.95 kPa (7.1 mm Hg)	
Relative vapor density	2.55 [Air = 1]	
Relative density	0.95	
Solubility(ies)		
Media	Result	
cold water	Not soluble	

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

2

# Auto-ignition temperature

	342	647.6	
: Not rele	evant/applicable	due to nature c	of the product.
: Kinema	atic (40°C): <20.5	5 mm²/s	
: Under i	normal condition	s of storage an	d use, hazardous reactions will not occur.
: Under i	normal condition	s of storage an	d use, hazardous reactions will not occur.
Not rele	evant/applicable	due to nature o	f the product.
: 12.459	kJ/g		
	: Kinema : Under i : Under i : Not rele	<ul> <li>Kinematic (40°C): &lt;20.5</li> <li>Under normal condition</li> <li>Under normal condition</li> </ul>	<ul> <li>Under normal conditions of storage an</li> <li>Not relevant/applicable due to nature o</li> </ul>

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#### **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. 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	-
1-Butanol	LC50 Inhalation Vapor	Rat	24000 mg/m³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Epoxy Polymer	LD50 Dermal	Rabbit	20 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
2,4,6-tris (dimethylaminomethyl)	LD50 Dermal	Rat	1280 mg/kg	-
Date of issue/Date of revision : 1	5, Apr, 2024 Date of previou	<b>is issue</b> : 29, Nov	v, 2023 Versio	on :14 11/18

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II HARDENER FOR DURASPAR PRIME EPOXY HIGH BUILD						
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phenol						
	LD50 Oral	Rat	1200 mg/kg	-		
Acute toxicity estimates						
Route ATE value						

Koule	ATE value	
Oral	7196.96 mg/kg 🥄 🥄	
Dermal	4415.41 mg/kg	
Inhalation (gases)	26893.88 ppm	
Inhalation (vapors)	249.53 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	
1-Butanol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Epoxy Polymer	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
0.4.0.1.				mg	
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl)				ug	
phenol	Okin Mild instant	Det		0.005 MI	
	Skin - Mild irritant	Rat Babbit	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
	Skin Sovere irritent	Det		mg	
	Skin - Severe irritant	Rat	-	0.25 MI	-

Conclusion/Summary

: Not available.

: Not available.

Sensitization

No data available

# Conclusion/Summary

**Mutagenicity** 

No data available

**Carcinogenicity** 

No data available

## Reproductive toxicity

No data available

# **Teratogenicity**

No data available

# Specific target organ toxicity (single exposure)

# **SECTION 11: Toxicological information**

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

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

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

## Aspiration hazard

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

## **11.2 Information on other hazards**

## **11.2.1 Endocrine disrupting properties**

Not available.

#### 11.2.2 Other information

Not available.

# SECTION 12: Ecological information

## 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure	
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours 🥄	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
1-Butanol	Acute EC50 1983 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 1730000 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	

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				
Conclusion/Summary		•		

Conclusion/Summary

: Not available.

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II HARDENER FOR DURASPAR PRIME EPOXY HIGH BUILD

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# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene, mixed isomers	-	-	Readily
1-Butanol	-	-	Readily
Ethylbenzene	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low

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

# 12.5 Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

# 13.1 Waste treatment methods

:	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.
:	Yes.
:	waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*
:	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.
:	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.
:	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.
	:

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SECTION 13: Disposa	SECTION 13: Disposal considerations			
European waste catalogue (EWC)	<ul> <li>packaging containing residues of or contaminated by hazardous substances 15 01 10*</li> </ul>			
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.			

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	111		
14.5 Environmental hazards	No.	No.	No.
Additional information	Tunnel code D/E	Emergency schedules F-E, S-E	-

**14.6 Special precautions for : 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 IMOinstruments

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

Date of previous issue : 29, Nov, 2023

# **SECTION 15: Regulatory information**

Product/ingredient name		%	Designation [Usage]	
HARDENER FOR DURASP toluene	AR PRIME EPOXY HIGH BUILD	≥90 ≤0.1	3 48	
Labeling <u>Other EU regulations</u>	: Not applicable.			
VOC content (2010/75/EU)	: 39.1 w/w 372 g/l			
Explosive precursors <u>Seveso Directive</u>	: Not applicable.			
major accident hazards.	calculation for determining whether a site is w	vithin the scope	of the Seveso Directive on	
National regulations				
5.2 Chemical Safety ssessment	: No Chemical Safety Assessment has been carried out.			

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>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</li> </ul>
Key literature references	<ul> <li>Regulation (EC) No. 1272/2008 [CLP]</li> <li>ADR = The European Agreement concerning the International Carriage of</li></ul>
and sources for data	Dangerous Goods by Road <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by</li> <li>Commission Regulation (EU) 2020/878</li> <li>Directive 2012/18/EU, and relative amendments &amp; additions</li> <li>Directive 2008/98/EC, and relative amendments &amp; additions</li> <li>Directive 2009/161/EU, and relative amendments &amp; additions</li> <li>CEPE Guidelines</li>

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

Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	ľ
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H335	Calculation method	ľ
STOT RE 2, H373	Calculation method	
Asp. Tox. 1, H304	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

<b>SECTION 16: Other info</b>	ormation	
Full text of abbreviated H	: H225	Highly flammable liquid and vapor.
statements	H226	Flammable liquid and vapor.
	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H312	Harmful in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	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.
Full text of classifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4
[CLP/GHS]	Aquatic Chror	
	Aquatic Chror	
	Asp. Tox. 1	ASPIRATION HAZARD - Category 1
	Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
	Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
	Skin Corr. 1C	
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
	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	: 15, Apr, 2024.	
Date of issue/ Date of revision	: 15, Apr, 2024	
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	: If there is no print information.	previous validation date please contact your supplier for more
Version	: 14	

## 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

# **SECTION 16: Other information**

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