# SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: MACROPOXY C123 Epoxy Glass Flake - Additive
Product code	: C123A
1.2 Relevant identified us	ses 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 the safety data
sheet	
Sherwin-Williams UK Limi Coatings Division EMEAI Tower Works Kestor Street Bolton	ted - Protective & Marine
BL2 2AL	
United Kingdom +44 (0) 1204 521771	
The Sherwin-Williams Cor Inver France SAS	
2 Rue Jean Revaus - BP 8 Thouars CEDEX France	50066 - 79102
e-mail address of perso responsible for this SDS	
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards	identification
2.1 Classification of the s	ubstance or mixture
Product definition	: Mixture
	to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 3, H226 Acute Tox. 4, H302	
Skin Corr. 1B, H314	
Eye Dam. 1, H318	
Skin Sens. 1, H317	
Repr. 2, H361	
STOT RE 2, H373 Asp. Tox. 1, H304	
Aquatic Acute 1, H400	
Aquatic Chronic 1, H410	
The product is classified a	is hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full	text of the H statements declared above.

## **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. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	Wear protective gloves, protective clothing and eye or face protection. Kee from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor.	
Response	Collect spillage. IF INHALED: Immediately call a POISON CENTER or doc	tor.
Storage	Not applicable.	
Disposal	Not applicable.	
Hazardous ingredients	Amino Polymer Xylene, mixed isomers Phenol, 4-Nonyl-, Branched Methylenedicyclohexylamine	
Supplemental label elements	FOR INDUSTRIAL USE ONLY	
Special packaging requiren	<u>s</u>	
Not applicable.		
2.3 Other hazards		
Other hazards which do not result in classification	This mixture does not contain any substances that are assessed to be a PB vPvB. This substance/mixture contains components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulatio 2017/2100.	e

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Amino Polymer	REACH #: 01-2119983522-33 CAS: 135108-88-2	≥25 - ≤50	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1]
Phenylmethanol	REACH #: 01-2119492630-38	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332	ATE [Oral] = 1230 mg/kg	[1]

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II MACROPOXY C123 Epoxy Glass Flake - Additive

C123A

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

SECTION 3: Compositi	on/information on	ingreaten	ts		
	EC: 202-859-9		Eye Irrit. 2, H319	ATE [Inhalation	
	CAS: 100-51-6			(vapours)] = 11 mg/	
	Index: 603-057-00-5				
Xylene, mixed isomers	REACH #:	≥10 - <20	Flam. Liq. 3, H226	ATE [Dermal] =	[1] [2]
	01-2119488216-32		Acute Tox. 4, H312	1100 mg/kg	
	EC: 215-535-7		Acute Tox. 4, H332	ATE [Inhalation	
	CAS: 1330-20-7		Skin Irrit. 2, H315	(gases)] = 6700	
	Index: 601-022-00-9		Eye Irrit. 2, H319	ppm	
			STOT SE 3, H335		
			STOT RE 2, H373		
			Asp. Tox. 1, H304		
Phenol, 4-Nonyl-, Branched	REACH #:	≥10 - ≤25	Acute Tox. 4, H302	ATE [Oral] = 1300	[1] [3]
	01-2119510715-45		Skin Corr. 1B, H314	mg/kg	
	EC: 284-325-5		Eye Dam. 1, H318	M [Acute] = 10	
	CAS: 84852-15-3		Repr. 2, H361 (oral)	M [Chronic] = 10	
			Aquatic Acute 1, H400		
			Aquatic Chronic 1,		
			H410		
2,4,6-tris	REACH #:	≤10	Acute Tox. 4, H302	ATE [Oral] = 1200	[1]
(dimethylaminomethyl)	01-2119560597-27		Skin Corr. 1C, H314	mg/kg	
phenol	EC: 202-013-9		Eye Dam. 1, H318		
	CAS: 90-72-2				
	Index: 603-069-00-0	-5	A suite Tax 4 11200		[4]
Methylenedicyclohexylamine	REACH #: 01-2119541673-38	≤5	Acute Tox. 4, H302	ATE [Oral] = 500	[1]
	EC: 217-168-8		Skin Corr. 1B, H314	mg/kg	
	CAS: 1761-71-3		Eye Dam. 1, H318 Skin Sens. 1, H317		
	CAS. 1701-71-3		STOT RE 2, H373		
			(oral)		
Ethylbenzene	REACH #:	≤3	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
	01-2119489370-35		Acute Tox. 4, H332	(vapours)] = 11 mg/	ניןנא
	EC: 202-849-4		STOT RE 2, H373	(vapours)j – Tring/	
	CAS: 100-41-4		(hearing organs)	1	
	Index: 601-023-00-4		Asp. Tox. 1, H304		
	Index. 001-020-00-4		Aquatic Chronic 3,		
			H412		
			See Section 16 for		
			the full text of the H		
			statements declared		

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

[3] Substance of equivalent concern

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>

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

Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 4,4'-methylenebis(cyclohexylamine). 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)

5.1 Extinguishing media		
Suitable extinguishing media	:	Recommended: alcohol-resistant foam, $CO_2$ , powders, water spray or mist.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising	fron	n the substance or mixture
5.2 Special hazards arising Hazards from the substance or mixture		<b>the substance or mixture</b> Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

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## SECTION 5: Firefighting measures

Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</li> </ul>

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

6.1 Personal precautions, pro	ote	ective 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. 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). 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.</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

## SECTION 7: Handling and storage

during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store in accordance with local regulations.</li> <li>Notes on joint storage</li> <li>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. Store in closed original container at temperatures between 5°C and 25°C.
7.3 Specific end use(s) Recommendations	: Not available.

Recommendations	i not available.
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	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values
	TWA: 50 ppm 8 hours. TWA: 221 mg/m <sup>3</sup> 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours. TWA: 442 mg/m <sup>3</sup> 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m <sup>3</sup> 15 minutes.

#### **Biological exposure indices**

No exposure indices known.

	Recommended monitoring procedures	<ul> <li>Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance</li> </ul>
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### **SECTION 8: Exposure controls/personal protection**

documents for methods for the determination of hazardous substances will also be required.

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

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
				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>	General	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
			0.50 / 3	population	
2,4,6-tris(dimethylaminomethyl)	DNEL	Long term	0.53 mg/m <sup>3</sup>	Workers	Systemic
phenol		Inhalation	0.4	14/	
	DNEL	Short term	2.1 mg/m³	Workers	Systemic
		Inhalation	0.15 mm m/// m		Quatamia
	DNEL DNEL	Long term Dermal Short term Dermal	0.0	Workers Workers	Systemic
	DNEL		0.6  mg/kg		Systemic
	DNEL	Long term Inhalation	0.13 mg/m <sup>3</sup>		Systemic
	DNEL	Short term	0.13 mg/m <sup>3</sup>	population General	Systemic
	DINEL	Inhalation	0.13 mg/m	population	Systemic
	DNEL	Long term Dermal	0.075 mg/	General	Systemic
			kg	population	Gysternic
	DNEL	Short term Dermal	Ng 0.075 mg/	General	Systemic
			kg	population	Cysternic
	DNEL	Long term Oral	0.075 mg/	General	Systemic
			•		Cystonio
	DNEL	Long term Oral	0.075 mg/ kg	population	Systemic

#### PNECs

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

#### 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

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

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

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

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

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

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state :	Liquid.
Color :	Colorless.
Odor :	Paint
Odor threshold :	Not Available (Not Tested).
рН :	Not relevant/applicable due to nature of the product. insoluble in water.
Melting point/freezing point :	Not relevant/applicable due to nature of the product.
Initial boiling point and : boiling range	136°C
Flash point :	Closed cup: 41°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: 13% (Phenylmethanol)
Vapor pressure :	0.95 kPa (7.1 mm Hg)
Relative vapor density :	3.66 [Air = 1]
Relative density :	0.99
Solubility(ies) :	
Media	Result
cold water	Not soluble

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

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#### Auto-ignition temperature

Ingredient name		°C	°F	1	Method		
Phenylmethanol		436	816.8				
Decomposition temperature	: Not rel	evant/applic	able due to natu	ure of the pro	oduct.		
Viscosity	: Kinema	atic (40°C):	<20.5 mm²/s				
Explosive properties	: Under normal conditions of storage and use, hazardous reactions will not occur			occur.			
Oxidizing properties	: Under normal conditions of storage and use, hazardous reactions will not occur			occur.			
Particle characteristics							
Median particle size	: Not rele	evant/applic	able due to natu	ire of the pro	oduct.		
Date of issue/Date of revision : 15	Apr, 2024	Date	of previous issue	:08, Nov, 20	23 Version	: 7.01	9/18

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

### 9.2 Other information

Heat of combustion

: 19.457 kJ/g

SECTION 10: Stability and reactivity					
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredie	ents.			
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 occu	ır.			
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.	s:			
10.6 Hazardous decomposition products	Decomposition products may include the following materials: carbon monoxide carbon dioxide, smoke, oxides of nitrogen.	9,			

## 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 4,4'-methylenebis(cyclohexylamine). May produce an allergic reaction.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phenylmethanol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Phenol, 4-Nonyl-, Branched	LD50 Oral	Rat	1300 mg/kg	-
2,4,6-tris (dimethylaminomethyl)	LD50 Dermal	Rat	1280 mg/kg	-

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II MACROPOXY C123 Epoxy Glass Flake - Additive				
C123A				
SECTION 11: Toxic	ological information			
phenol				
	LD50 Oral	Rat	1200 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
Oral	922.1 mg/kg
Dermal	8161.29 mg/kg
Inhalation (gases)	49709.66 ppm
Inhalation (vapors)	33.34 mg/l

#### Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Skin - Mild irritant	Man	-	48 hours 16	-
			mg	
Skin - Moderate irritant	Pig	-	100 %	-
Skin - Moderate irritant	Rabbit	-	24 hours 100	-
			mg	
-		-	-	-
Eyes - Severe irritant	Rabbit	-	24 hours 5	-
			mg	
		-		-
		-		-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
		-		-
Skin - Severe irritant	Rabbit	-		-
	<b>D</b> 11 11			
Eyes - Severe Irritant	Rabbit	-		-
			ug	
Skin Mild irritant	Pot		0.025 MI	
		-		-
	Nabbit	-		-
Skin - Severe irritant	Rat	_		_
				-
Lyes - Severe initiant	TADDIC	-		-
Eves - Severe irritant	Rabbit	_		-
-		<b>_</b>		-
	Skin - Mild irritant Skin - Moderate irritant	Skin - Mild irritantManSkin - Moderate irritantPig RabbitSkin - Moderate irritantPig RabbitEyes - Mild irritantRabbitEyes - Severe irritantRabbitSkin - Mild irritantRat RabbitSkin - Moderate irritantRat 	Skin - Mild irritantMan-Skin - Moderate irritantPig Rabbit-Skin - Moderate irritantPig Rabbit-Eyes - Mild irritant Eyes - Severe irritantRabbit-Skin - Mild irritant Skin - Moderate irritantRat Rabbit-Skin - Mild irritant Skin - Moderate irritantRat Rabbit-Skin - Moderate irritant Skin - Moderate irritantRat Rabbit-Eyes - Severe irritant Skin - Severe irritantRabbit Rabbit-Eyes - Severe irritant Skin - Severe irritantRat Rabbit-Skin - Mild irritant Skin - Severe irritantRat Rabbit-Skin - Severe irritant Skin - Severe irritantRat Rabbit-Skin - Severe irritant Eyes - Severe irritantRat Rabbit-Skin - Severe irritant Eyes - Severe irritantRat Rabbit-Eyes - Severe irritant Eyes - Severe irritantRat Rabbit-Eyes - Severe irritantRat Rabbit-Eyes - Severe irritantRat Rabbit-Eyes - Severe irritantRat Rabbit-Eyes - Severe irritantRabbit-Eyes - Severe irritantRabbit- <td>Skin - Mild irritantMan-48 hours 16 mgSkin - Moderate irritantPig-100 %Skin - Moderate irritantRabbit-24 hours 100 mgEyes - Mild irritantRabbit-87 mgEyes - Severe irritantRabbit-24 hours 5 mgSkin - Mild irritantRat-8 hours 60 uLSkin - Mild irritantRat-100 %Skin - Moderate irritantRat-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-100 mgSkin - Severe irritantRabbit-100 mgSkin - Severe irritantRabbit-24 hours 500 mgEyes - Severe irritantRabbit-24 hours 500 mgSkin - Mild irritantRat-0.025 MI gSkin - Severe irritantRat-0.025 MI gSkin - Severe irritantRat-0.25 MI gSkin - Severe irritantRat-0.25 MI gSkin - Severe irritantRat-24 hours 10 uLEyes - Severe irritantRabbit-24 hours 10 uLEyes - Severe irritantRabbit-500 mg</td>	Skin - Mild irritantMan-48 hours 16 mgSkin - Moderate irritantPig-100 %Skin - Moderate irritantRabbit-24 hours 100 mgEyes - Mild irritantRabbit-87 mgEyes - Severe irritantRabbit-24 hours 5 mgSkin - Mild irritantRat-8 hours 60 uLSkin - Mild irritantRat-100 %Skin - Moderate irritantRat-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-100 mgSkin - Severe irritantRabbit-100 mgSkin - Severe irritantRabbit-24 hours 500 mgEyes - Severe irritantRabbit-24 hours 500 mgSkin - Mild irritantRat-0.025 MI gSkin - Severe irritantRat-0.025 MI gSkin - Severe irritantRat-0.25 MI gSkin - Severe irritantRat-0.25 MI gSkin - Severe irritantRat-24 hours 10 uLEyes - Severe irritantRabbit-24 hours 10 uLEyes - Severe irritantRabbit-500 mg

## Conclusion/Summary Sensitization

*mmary* : Not available.

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No data available
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### *Conclusion/Summary* : Not available.

#### **Mutagenicity**

No data available

## **Carcinogenicity**

No data available

#### **Reproductive toxicity**

No data available

#### **Teratogenicity**

## **SECTION 11: Toxicological information**

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

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

Product/ingredient name	Category	Route of exposure	Target organs
Amino Polymer	Category 2	oral	-
Xylene, mixed isomers	Category 2	-	-
Methylenedicyclohexylamine	Category 2	oral	-
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	
Phenylmethanol	Acute LC50 10 ppm Fresh water	Fish - Lepomis macrochirus	96 hours	
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	
Phenol, 4-Nonyl-, Branched	Acute EC50 0.03 mg/l Marine water	Algae - Skeletonema costatum	72 hours	
·	Acute EC50 0.027 mg/l Marine water	Algae - Skeletonema costatum	96 hours	
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours	
	Acute LC50 17 μg/l Marine water	Fish - <i>Pleuronectes americanus</i> - Larvae	96 hours	
	Chronic EC10 0.012 mg/l Marine water	Algae - Skeletonema costatum	96 hours	
	Chronic NOEC 5 µg/l Fresh water	Crustaceans - Gammarus fossarum - Adult	21 days	
	Chronic NOEC 7.4 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	33 days	
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	
ate of issue/Date of revision : 1	Image: 15, Apr, 2024         Date of previous issue	: 08, Nov, 2023 Version : 7.0	)1 12/1	
SHW-A4-EU-CLP44-RU				

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

MACROPOXY C123 Epoxy Glass Flake - Additive

## C123A

## **SECTION 12: Ecological information**

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	: Not available.	ł				
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Phenylmethanol Xylene, mixed isomers Ethylbenzene	- - -		-		Readily Readily Readily	,

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Phenol, 4-Nonyl-, Branched	-	740	High

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

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.
European waste catalogue (EWC)	<ul> <li>waste paint and varnish containing organic solvents or other hazardous substances</li> <li>08 01 11*</li> </ul>

MACROPOXY C123 Epoxy Glass Flake - Additive C123A

## **SECTION 13: Disposal considerations**

Disposal considerations	<ul> <li>Do not allow to enter drains or watercourses.</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> <li>If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.</li> <li>For further information, contact your local waste authority.</li> </ul>
<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)	<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	SECTION '	14:	Transport	information
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	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE. Marine pollutant (Phenol, 4-Nonyl-, Branched)	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
14.3 Transport Hazard Class(es)/ Label(s)	3 (8)	3 (8)	3 (8)
14.4 Packing group	111	III	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-C	The environmentally hazardous substance mark may appear if required by other transportation regulations.

user

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.

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

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

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

#### SECTION 15: Regulatory information

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

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

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

Ingredient name	Intrinsic property		Reference number	Date of revision
Phenol, 4-Nonyl-, Branched	Endocrine disrupting properties for environment	Candidate	ED/169/2012	12/19/2012

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]
MACROPOXY C123 Epoxy Glass Flake - Additive Phenol, 4-nonyl-, branched toluene		≥90 ≥10 - ≤25 ≤0.1	3 46 48
Labeling: Not appOther EU regulations	cable.		
VOC content (2010/75/EU) : 46.5 461	/w I		

#### Explosive precursors : Not applicable.

Prior Informed Consent (PIC) (649/2012/EU)

Annex	Ingredient name	Status
Annex I - Part 1	Nonylphenols	Listed
Annex I - Part 2	Nonylphenols	Listed

## 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

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

<sup>7</sup> Indicates information that has changed from	previously issued version
indicates information that has changed norm	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 and sources for data	<ul> <li>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 &amp; additions Directive 2008/98/EC, and relative amendments &amp; additions Directive 2009/161/EU, and relative amendments &amp; additions CEPE Guidelines</li> </ul>

#### 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
Acute Tox. 4, H302	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361	Calculation method
STOT RE 2, H373	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method
Full text of abbreviated H : H225 Highly	flammable liquid and vapor.
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	nable liquid and vapor.
	ul if swallowed.
H304 May b	e fatal if swallowed and enters airways.
	ul in contact with skin.
H314 Cause	es severe skin burns and eye damage.
H315 Cause	es skin irritation.
H317 May c	ause an allergic skin reaction.
H318 Cause	es serious eye damage.
H319 Cause	s serious eye irritation.
	ul if inhaled.
	ause respiratory irritation.
H361 Suspe	cted of damaging fertility or the unborn child.
,	ause damage to organs through prolonged or repeated
expos H400 Verv t	oxic to aquatic life.
	oxic to aquatic life with long lasting effects. ul to aquatic life with long lasting effects.
HH 12 Hallin	ar to aquatic me with long lasting effects.

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

Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 STOT RE 2	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3
Date of printing	: 15, Apr, 2024.	
Date of issue/ Date of revision	: 15, Apr, 2024	
Date of previous issue	: 08, Nov, 2023	
	: If there is no previous v information.	validation date please contact your supplier for more
Version	: 7.01	
Notice to reader		

#### Notice to reader

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

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

• The product is classified as hazardous for health

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

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

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