SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: MACROPOXY C401 Epoxy Undercoat/MIO - Additive
Product code	: C401A
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Material uses	Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier of sheet	the safety data
Sherwin-Williams UK Limited	I - Protective & Marine
Coatings Division EMEAI	
Tower Works	
Kestor Street	
Bolton BL2 2AL	
United Kingdom	
+44 (0) 1204 521771	
The Sherwin-Williams Comp Inver France SAS	any
2 Rue Jean Revaus - BP 800)88 - 79102
Thouars CEDEX	
France	
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com
1.4 Emergency telephone nu	umber
National advisory body/Po	
Telephone number	
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
•	: Emergency contact available 24 hours a day
Hours of operation	. Emergency contact available 24 nours a day
SECTION 2: Hazards id	entification
2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
	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 SE 3, H335	
STOT SE 3, H336	
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

MACROPOXY C401 Epoxy Undercoat/MIO - Additive C401A

SECTION 2: Hazards identification

STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 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.

2017/2100.

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. May cause respiratory irritation. May cause drowsiness or dizziness. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Amino Polymer Hydrocarbons, C9, aromatics Phenol, 4-Nonyl-, Branched Methylenedicyclohexylamine
Supplemental label elements	: FOR INDUSTRIAL USE ONLY
Special packaging requirem Not applicable.	<u>ents</u>
2.3 Other hazards	
	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	 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)

SECTION 3: Composition/information on ingredients :

3.2 Mixture

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 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: -	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Phenol, 4-Nonyl-, Branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3	≥10 - ≤25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 (oral) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/kg M [Acute] = 10 M [Chronic] = 10	[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	≤10	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/kg	[1]
Methylenedicyclohexylamine	REACH #: 01-2119541673-38 EC: 217-168-8 CAS: 1761-71-3	≤5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 (oral) See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 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 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	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

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

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable extinguishing	: Recommended: alcohol-resistant foam, CO ₂ , powders, water spray or mist.	
media Unsuitable extinguishing media	: Do not use water jet.	

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture	e will produce dense black smoke. Exposure to decompos use a health hazard.	ition products may
Hazardous combustion products	composition products may include the following materials: rbon dioxide, smoke, oxides of nitrogen.	carbon monoxide,
5.3 Advice for firefighters Special protective actions for fire-fighters	ool closed containers exposed to fire with water. Do not relea	ease runoff from fire to

	ghters should wear positive pressure self-contained breathing apparatus
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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).

Do not allow to enter drains or watercourses.	7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.
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SECTION 7: Handling and storage

5	5
	Information on fire and explosion protection Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth,
	ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.
7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
	Contaminated absorbent material may pose the same hazard as the spilled product. Store in closed original container at temperatures between 5°C and 25°C.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.

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

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

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

solutions

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

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

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

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

	1_	_	i		
Product/ingredient name	Туре	Exposure	Value	Population	Effects
2,4,6-tris(dimethylaminomethyl)	DNEL	Long term	0.53 mg/m ³	Workers	Systemic
phenol		Inhalation	_		-
	DNEL	Short term	2.1 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	0.15 mg/kg	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg	Workers	Systemic
	DNEL	Long term	0.13 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	0.13 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.075 mg/	General	Systemic
			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 Sewage Treatment	0.005 mg/l 0.262 mg/l	-
	Plant		
	Soil	0.025 mg/kg	-

8.2 Exposure controls Appropriate engineering : Provide adequate ventilation. Where reasonably practicable, this should be controls 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 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. : Use safety eyewear designed to protect against splash of liquids. Eye/face 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.

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SECTION 8: Exposure controls/personal protection

L	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG)
	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
	Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used
	correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	 Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 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 controls	: Do not allow to enter drains or watercourses.

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

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Melting point/freezing point	: Not relevant/applicable due to nature of the product.	
рH	 Not relevant/applicable due to nature of the product. insoluble in water. 	
Odor threshold	: Not Available (Not Tested).	
Odor	: Paint	
Color	: Colorless.	
Physical state	: Liquid.	
<u>Appearance</u>		

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SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: 153°C
Flash point	Closed cup: 51°C [Pensky-Martens Closed Cup]
Evaporation rate	: 0.23 (butyl acetate = 1)
Flammability	: Flammable liquid.
Lower and upper explosion limit	: LEL: 0.7% (Light Aromatic Hydrocarbons) UEL: 13% (Phenylmethanol)
Vapor pressure	: 0.51 kPa (3.8 mm Hg)
Relative vapor density	: 3.72 [Air = 1]
Relative density	: 0.98
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	Method	
Phenylmethanol		436	816.8		
Decomposition temperature	: N	lot relevant/applic	able due to nature	of the product.	
/iscosity	: K	inematic (40°C):	<20.5 mm²/s		
Explosive properties	: U	Inder normal cond	ditions of storage ar	nd use, hazardous reactions w	ill not occur
Dxidizing properties	: U	Inder normal cond	ditions of storage ar	nd use, hazardous reactions w	ill not occur
article characteristics					
Vedian particle size	: N	ot relevant/applic	able due to nature o	of the product.	

9.2 Other information

Heat of combustion	: 23.645 kJ/g
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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.		
Defer to Section 7, UANDUN	IC AND STORACE and Saction & EXPOSURE CONTROL S/REDSONAL		

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	-
Hydrocarbons, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-
Phenol, 4-Nonyl-, Branched	LD50 Oral	Rat	1300 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-

Acute toxicity estimates

Route	ATE value
Oral	1012.36 mg/kg
Inhalation (vapors)	39.5 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenylmethanol	Skin - Mild irritant	Man	-	48 hours 16	-
				mg	
	Skin - Moderate irritant	Pig	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
Hydrocarbons, C9, aromatics	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
				uL	
Phenol, 4-Nonyl-, Branched	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				mg	
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl) ohenol				ug	
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Severe irritant	Rat	-	0.25 MI	-
Methylenedicyclohexylamine	Eyes - Severe irritant	Rabbit	-	24 hours 10	-
				uL	
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SECTION 11: Toxicological information

	_	
Conclusion/Summary	:	Not available.
<u>Sensitization</u>		
No data available		
Conclusion/Summary	:	Not available.
<u>Mutagenicity</u>		
No data available		

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Amino Polymer	Category 2	oral	-
Methylenedicyclohexylamine	Category 2	oral	

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C9, aromatics	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.

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

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Phenylmethanol	Acute LC50 10 ppm Fresh water	Fish - Lepomis macrochirus	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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.					
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Phenylmethanol	-		-		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hydrocarbons, C9, aromatics	-	10 to 2500	High
Phenol, 4-Nonyl-, Branched	-	740	High

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

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SECTION 13: Disposal considerations

Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.
European waste catalogue (EWC)	 waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*
Disposal considerations	 Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
Packaging	
Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	: packaging containing residues of or contaminated by hazardous substances 15 01 10*
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE. Marine pollutant (Phenol, 4-Nonyl-, Branched)	PAINT RELATED MATERIAL CORROSIVE, FLAMMABLE
14.3 Transport	8 (3)	8 (3)	8 (3)
Hazard Class(es)/ Label(s)			
14.4 Packing group	11	11	11
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
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			SHW-A4-EU-CLP44-HU

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

MACROPOXY C401 Epoxy Undercoat/MIO - Additive C401A

SECTION 14: Transport information

Additional	The environmentally	The marine pollutant mark is	The environmentally
information	hazardous substance mark is	not required when transported	hazardous substance mark
	not required when transported	in sizes of ≤5 L or ≤5 kg.	may appear if required by
	in sizes of ≤5 L or ≤5 kg.	Emergency schedules F-E,	other transportation
	Tunnel code D/E	S-C	regulations.

14.6 Special precautions for	: Transport within user's premises: always transport in closed containers that are
user	upright and secure. Ensure that persons transporting the product know what to do in
	the event of an accident or spillage.

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

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

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Ingredient name	Intrinsic property	Status	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]
Γ	MACROPOXY C401 Epoxy Undercoat/MIO - Additive	≥90	3
	Phenol, 4-nonyl-, branched	≥10 - ≤25	46

Labeling : Not applicable. **Other EU regulations** VOC content (2010/75/EU) : 51.1 w/w

502 g/l

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

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SECTION 15: Regulatory information

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.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative N/A = Not available
Key literature references and sources for data	 Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

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

Clas	sification	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 SE 3, H335		Calculation method
STOT SE 3, H336		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	: H226	Flammable liquid and vapor.
statements	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H314	Causes severe skin burns and eye damage.
	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.
	H361	Suspected of damaging fertility or the unborn child.
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SECTION 16: Other information

SECTION 16: Other info	mation
	 H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 2 Aquatic Chronic 3 Aguatic Chronic 3 Aquatic Chronic 3 Aquatic Chronic 3 Aguatic Chronic 3 Aguatic Chronic 4 Aquatic Chronic 5 Aquatic Chronic 6 Aquatic Chronic 7 Aquatic Chronic 7 Aquatic Chronic 7 Aquatic Chronic 8 Aquatic Chronic 9 Aquatic 10 Aquatic 10<!--</td-->
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	: If there is no previous validation date please contact your supplier for more information.
Version	: 18

Notice to reader

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

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

• The product is classified as hazardous for health

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

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer, is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product are ny purpose other than the purpose

SECTION 16: Other information

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.