# SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: MACROPOXY G280 Epoxy Blast Primer - Additive
Product code	: G280A
1.2 Relevant identified use	es of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.2 Details of the sumplice	
1.3 Details of the supplier of sheet	of the safety data
Sherwin-Williams UK Limite	ed - Protective & Marine
Coatings Division EMEAI	
Tower Works Kestor Street	
Bolton	
BL2 2AL	
United Kingdom	
+44 (0) 1204 521771	
The Sherwin-Williams Com	pany
Inver France SAS	
2 Rue Jean Revaus - BP 80	)088 - 79102
Thouars CEDEX France	
Tance	
e-mail address of person	: hse.pm.emea@sherwin.com
responsible for this SDS	
1.4 Emergency telephone r	number
National advisory body/P	<u>oison Center</u>
Telephone number	: +385 1 2348 342
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards id	lentification
2.1 Classification of the su	bstance or mixture
Product definition	: Mixture
Classification according t	o Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 2, H225	
Skin Irrit. 2, H315	
Eye Dam. 1, H318	
Skin Sens. 1, H317 Repr. 2, H361d	
STOT SE 3, H336	
STOT RE 2, H373	
Asp. Tox. 1, H304	
Aquatic Chronic 3, H412	
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1/17

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

MACROPOXY G280 Epoxy Blast Primer - Additive G280A

## **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>Highly 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 drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.
Response	: IF 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	: Toluene Polyamidoamine Amines, polyethylenepoly-, triethylenetetramine fraction
Supplemental label elements	: FOR INDUSTRIAL USE ONLY

#### **Special packaging requirements**

Not applicable.

<u>2.3 Other hazards</u>	
	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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥50 - ≤75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	-	[1] [2]
2-Propanol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
Polyamidoamine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥10 - <25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	REACH #: 01-2119487919-13 EC: 292-588-2 CAS: 90640-67-8 Index: 612-065-00-8	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 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. Type

[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 m	neasures
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	<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.
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	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Date of issue/Date of revision : 15, Apr, 2024 MACROPOXY G280 Epoxy Blast Primer - Additive G280A

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

Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

Contains polyethlyenepolyamines. May produce an allergic reaction.

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

Notes to physician	<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 measures			
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	from the substance or mixture		
Hazards from the substance or mixture	<ul> <li>Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.</li> </ul>		
Hazardous combustion products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.		
Special protective equipment for fire-fighters	: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.		

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

6.1 Personal precautions, pro	ote	ctive 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.
	-1	- 4

## 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.</li> <li>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> <li>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</li> </ul>
	concentrations have fallen below the exposure limits.

MACROPOXY G280 Epoxy Blast Primer - Additive G280A

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

7.2 Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. <b>Notes on joint storage</b> Keep away from: oxidizing agents, strong alkalis, strong acids. <b>Additional information on storage conditions</b> 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.

Recommendations	: 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
Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 384 mg/m <sup>3</sup> 15 minutes. STELV: 100 ppm 15 minutes. ELV: 192 mg/m <sup>3</sup> 8 hours. ELV: 50 ppm 8 hours.
2-Propanol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 1250 mg/m <sup>3</sup> 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m <sup>3</sup> 8 hours. ELV: 400 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
toluene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)
	BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.
	BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.
	BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.
	BEI: 10.85 μmol/l, toluene [in blood]. Sampling time: at the end of the work shift.
	BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.
	BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.
Date of issue/Date of revision : 15, Apr, 2024	Date of previous issue         : 17, Sep, 2023         Version         : 6         6/17
	SHW-A4-EU-CLP44-HR

MACROPOXY G280 Epoxy Blast Primer - Additive

## G280A

# SECTION 8: Exposure controls/personal protection

	BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.
propan-2-ol	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift.
	BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. BEI: 0.86 μmol/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 0.86 μmol/l, acetone [in blood]. Sampling time: at the end of the work shift.
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 documents for methods for the determination of hazardous substances will also be required.</li> <li>Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.</li> </ul>

## **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Toluene	DNEL	Short term	226 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Short term	226 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Long term Dermal	226 mg/m <sup>3</sup>	General	Systemic
				population	
				[Human via the	
				environment]	
	DNEL	Long term	226 mg/kg	General	Systemic
		Inhalation	bw/day	population	
				[Human via the	
				environment]	
	DNEL	Long term	56.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
				[Human via the	
				environment]	
	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
				[Human via the	
				environment]	
	DNEL	Long term	192 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term	192 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Systemic
ate of issue/Date of revision : 15, Apr, 2	2024	Date of previous is	sue :17, Sep,	2023 Versio	<b>on</b> :6
				SHW-A	4-EU-CLP44-HR

## SECTION 8: Exposure controls/personal protection

-	-	-			
		Inhalation			
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m <sup>3</sup>	General population [Consumers]	Local
2-Propanol	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	500 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	89 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	26 mg/kg bw/day	General population [Consumers]	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Toluene	Fresh water sediment	0.68 mg/l	Assessment Factors
	Marine water sediment	0.68 mg/l	Assessment Factors
	Sewage Treatment Plant	13.61 mg/l	Assessment Factors
	Soil	2.89 mg/kg	Assessment Factors
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-
2-Propanol	Fresh water	140.9 mg/l	-
	Marine water	140.9 mg/l	-
	Sewage Treatment Plant	2251 mg/l	-
	Sediment	552 mg/kg dwt	-
	Soil	28 mg/kg	-
	Secondary Poisoning	160 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 measu	ires
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	:

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

	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
	<ul> <li>chores for opnion protoction need to be onlinged inmodulately when in contact with chemicals.</li> <li>Gloves for repeated or prolonged exposure (breakthrough time &gt; 240 min.)</li> <li>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</li> <li>Otherwise use: Butyl gloves &gt;0.3 mm</li> <li>For long term exposure or spills (breakthrough time &gt;480 min.): Use PE laminated gloves as under gloves</li> <li>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.</li> <li>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)</li> </ul>
	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	<ul> <li>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</li> </ul>
Environmental exposure	<ul><li>with an approved standard if a risk assessment indicates this is necessary.</li><li>Do not allow to enter drains or watercourses.</li></ul>
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.

SHW-A4-EU-CLP44-HR

## **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 :	Solvent.
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	81°C
Flash point :	Closed cup: 13°C [Pensky-Martens Closed Cup]
Evaporation rate :	2 (butyl acetate = 1)
Flammability :	Flammable liquid.
	LEL: 1% (Toluene) UEL: 12.7% (2-Propanol)
Vapor pressure :	4.4 kPa (33 mm Hg)
Relative vapor density :	2.07 [Air = 1]
Relative density :	0.85
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

Ingredient name			°C	°F	Method
2-Propanol Toluene			398 480	748.4 896	
Decomposition temperature	:	Not rele	vant/applic	able due to nature c	f the product.
Viscosity	:	Kinema	tic (40°C):	<20.5 mm²/s	
Explosive properties	:	Under n	ormal con	ditions of storage an	d use, hazardous reactions will not occur
Oxidizing properties	:	Under n	ormal con	ditions of storage an	d use, hazardous reactions will not occur
Particle characteristics					
Median particle size	:	Not rele	vant/applic	able due to nature o	f the product.
.2 Other information					
Heat of combustion	:	25.451	kJ/g		
SECTION 10: Stability an	d re	activity			
0.1 Reactivity	: No	o specific	test data re	elated to reactivity av	vailable for this product or its ingredients.
0.2 Chemical stability	: St	able unde	er recomme	ended storage and h	andling conditions (see Section 7).
0.3 Possibility of	: Uı	nder norm	nal conditio	ns of storage and us	e, hazardous reactions will not occur.

10.3 Possibility of hazardous reactions

10/17

## SECTION 10: Stability and reactivity

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 polyethlyenepolyamines. May produce an allergic reaction.

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

## Acute toxicity estimates

Route	ATE value
Oral	44929.18 mg/kg
Dermal	98844.21 mg/kg

## Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
			100 mg	
Eyes - Mild irritant	Rabbit	-	870 ug	-
Eyes - Severe irritant	Rabbit	-	24 hours 2	-
			mg	
Skin - Mild irritant	Pig	-	24 hours 250	-
	-		uL	
Skin - Mild irritant	Rabbit	-	435 mg	-
Skin - Moderate irritant	Rabbit	-	24 hours 20	-
			mg	
Skin - Moderate irritant	Rabbit	-	500 mg	-
5, Apr, 2024 Date of p	revious issue : 17,	Sep, 2023	Version	:6 11/1
	Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant	Eyes - Mild irritantRabbitEyes - Mild irritantRabbitEyes - Severe irritantRabbitSkin - Mild irritantPigSkin - Mild irritantRabbitSkin - Moderate irritantRabbitSkin - Moderate irritantRabbit	Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Mild irritantPig-Skin - Mild irritantRabbit-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-	Eyes - Mild irritantRabbit-0.5 minutes 100 mgEyes - Mild irritantRabbit-870 ugEyes - Severe irritantRabbit-24 hours 2 mgSkin - Mild irritantPig-24 hours 250 uLSkin - Mild irritantRabbit-435 mgSkin - Moderate irritantRabbit-24 hours 200 mgSkin - Moderate irritantRabbit-500 mg

## **SECTION 11: Toxicological information**

	licelegical internation				
2-Propanol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
-	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Conclusion/Summary : Not available.

## **Sensitization**

No data available

## Conclusion/Summary : Not available.

## **Mutagenicity**

No data available

## **Carcinogenicity**

No data available

## Reproductive toxicity

No data available

## **Teratogenicity**

No data available

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 3 Category 3	-	Narcotic effects Narcotic effects

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 2	-	-

## Aspiration hazard

Product/ingredient name	Result	
Toluene	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.

## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - <i>Gammarus</i> <i>pseudolimnaeus</i> - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days
2-Propanol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water Acute LC50 4200 mg/l Fresh water	Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 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
Toluene 2-Propanol	-		-		Readily Readily	

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	-	90	Low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: 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

Product

## **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 an any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed o 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 $10^{\ast}$
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	II	II	11
14.5 Environmental hazards	No.	No.	No.
Additional information	Special provisions 640 (C) Tunnel code D/E	Emergency schedules F-E, S-E	-

SHW-A4-EU-CLP44-HR

## **SECTION 14: Transport information**

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.

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

Product/ingredient name MACROPOXY G280 Epoxy Blast Primer - Additive toluene		%	Designation [Usage] 3 48
		≥90 ≥50 - ≤75	
Labeling <u>Other EU regulations</u> VOC content (2010/75/EU)	: Not applicable. : 88.8 w/w 759 g/l		
Explosive precursors <u>Seveso Directive</u>	: Not applicable.		
This product may add to the major accident hazards. <u>National regulations</u>	e calculation for determining whether a site is v	vithin the scope of	the Seveso Directive on
5.2 Chemical Safety	: No Chemical Safety Assessment has bee	n carried out.	

#### Assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version. Abbreviations and : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. acronyms 1272/20081 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

# **SECTION 16: Other information**

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</li> </ul>
	Directive 2009/161/EU, and relative amendments & additions CEPE Guidelines

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

Classification		Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H225 H302 H304 H312 H314 H315 H317 H318 H319 H336 H361d H373 H411 H412	<ul> <li>Highly flammable liquid and vapor.</li> <li>Harmful if swallowed.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Harmful in contact with skin.</li> <li>Causes severe skin burns and eye damage.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of damaging the unborn child.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Toxic to aquatic life with long lasting effects.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>
Full text of classifications [CLP/GHS]		ACUTE TOXICITY - Category 4 2 AQUATIC HAZARD (LONG-TERM) - Category 2
Date of printing	: 15, Apr, 2024.	LA GOUL - Galegory 5
Date of issue/ Date of revision	: 15, Apr, 2024	
Date of previous issue	: 17, Sep, 2023	
Date of issue/Date of revision	: 15, Apr, 2024	Date of previous issue         : 17, Sep, 2023         Version         : 6         16/17           SHW-A4-EU-CLP44-HR

## **SECTION 16: Other information**

Version

: If there is no previous validation date please contact your supplier for more information.

: 6

## 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.