# SAFETY DATA SHEET

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

1.1 Product identifier

Product name : MACROPOXY M922M Surface Tolerant - Base

**Product code** : M922MB

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 the safety data sheet

Sherwin-Williams UK Limited - Protective & Marine

Coatings Division EMEAI

Tower Works Kestor Street Bolton BL2 2AL

United Kingdom +44 (0) 1204 521771

The Sherwin-Williams Company Inver France SAS 2 Rue Jean Revaus - BP 80088 - 79102 Thouars CEDEX

France

e-mail address of person responsible for this SDS

: hse.pm.emea@sherwin.com

# 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : 111 (general public) /0344 892 111 (Medical professional (NHS) only)

<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 substance or mixture

**Product definition** : Mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **SECTION 2: Hazards identification**

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 : Warning

**Hazard statements**: Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

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. Wear 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 vapour. Wash thoroughly after handling.

Response: Collect spillage.Storage: Not applicable.Disposal: Not applicable.

*Hazardous ingredients* : 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and

phenol

Med. Aliphatic Hydrocarbon Solvent

Supplemental label elements

: Contains epoxy constituents. May produce an allergic reaction. FOR INDUSTRIAL

USE ONLY

#### Special packaging requirements

Not applicable.

#### 2.3 Other hazards

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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

Other hazards which do not result in classification

: None known.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixture :

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 Version : 17 2/17

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II MACROPOXY M922M Surface Tolerant - Base M922MB

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

•					
Zinc Phosphate	EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≥25 - ≤50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	REACH #:	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
1-Methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≤10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Med. Aliphatic Hydrocarbon Solvent	EC: 265-191-7 CAS: 64742-88-7 Index: 649-405-00-X	≤3	Flam. Liq. 3, H226 STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410  See Section 16 for the full text of the H statements declared above.	M [Acute] = 1 M [Chronic] = 1	[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 measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	Demove to freeheir Veen person warm and at reat If not breathing if breathing is

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 recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Date of issue/Date of revision Version : 17 3/17 : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023

MACROPOXY M922M Surface Tolerant - Base

M922MB

#### SECTION 4: First aid measures

#### Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. 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 vapour 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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

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

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

Notes to physician : 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.

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 from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion

products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 Version : 17 4/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **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 vapour or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialised 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 material 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

: Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours 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 vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 Version : 17 5/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **SECTION 7: Handling and storage**

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

# Notes on joint storage

Keep away from: oxidising 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 unauthorised 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 spilt product. Store in closed original container at temperatures between 5°C and 25°C.

# 7.3 Specific end use(s)

solutions

Recommendations : No Industrial sector specific : No

Not available.Not available.

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

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

# **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
,	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.  STEL: 560 mg/m³ 15 minutes.  STEL: 150 ppm 15 minutes.  TWA: 375 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.

# **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 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**

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 176/17

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
MACROPOXY M922M Surface Tolerant - Base
M922MB

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
1-Methoxy-2-propanol	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term	369 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Long term Dermal	183 mg/kg	Workers	Systemic
	DIVEL	Long term Dermai	bw/day	VVOIKEIS	Systemic
	DNEL	Long term	43.9 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DAIE		70 "	[Consumers]	
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
			bw/day	population [Consumers]	
	DNEL	Long term Oral	33 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
Med. Aliphatic Hydrocarbon Solvent	DNEL	Long term	871 mg/m³	Workers	Systemic
	DAIE	Inhalation	000 "	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	185 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	- J
				[Consumers]	
	DNEL	Long term Oral	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	125 mg/kg	[Consumers] General	Systemic
	DINEL	Long term Dermai	bw/day	population	Systemic
			bw/day	[Consumers]	
zinc oxide	DNEL	Long term	5 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term	0.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Long term Dermal	83 mg/kg	Workers	Systemic
	DIVLL	Long term Dermai	bw/day	VVOIKEIS	Cysternic
	DNEL	Long term	2.5 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	83 mg/kg	General	Systemic
	DNE	Long torm Oral	bw/day	population	Systemis
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
			ng bwaay	Population	

# **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
1-Methoxy-2-propanol	Fresh water	10 mg/l	-
	Fresh water sediment	52.3 mg/kg	-
	Marine water sediment	5.2 mg/kg	-
	Soil	4.59 mg/kg	-
	Sewage Treatment	100 mg/l	-
	Plant		
zinc oxide	Fresh water	0.0206 mg/l	-
	Marine water	0.0061 mg/l	-
	Sewage Treatment	0.1 mg/l	-
	Plant		
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-

# 8.2 Exposure controls

Date of issue/Date of revision	: 15, Apr, 2024	Date of previous issue	: 01, Nov, 2023	Version : 17	7/17
				SHW-A4-EU-CLP44-GB	

MACROPOXY M922M Surface Tolerant - Base

M922MB

# SECTION 8: Exposure controls/personal protection

# 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 vapours 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.

# Eye/face protection Skin protection

: Use safety eyewear designed to protect against splash of liquids.

Hand protection
Gloves

- : Wear suitable gloves tested to EN374.
- : Gloves for term exposure/splash protection (less than 10 min):Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with chemicals.

Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

The recommendation for the type or types of glove to usewhen 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 fibres or of high-temperature-resistant synthetic fibres.
- : 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.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 178/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

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

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

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

#### **Appearance**

Physical state : Liquid. Colour : Silver. Odour : Paint

**Odour threshold** : Not Available (Not Tested).

: Not relevant/applicable due to nature of the product. pН

insoluble in water.

Melting point/freezing point

Initial boiling point and

boiling range

Flash point

: 120°C

: 0.66 (butyl acetate = 1) Evaporation rate : Flammable liquid. **Flammability** 

Lower and upper explosion

limit

LEL: 1% (Med. Aliphatic Hydrocarbon Solvent)

: Closed cup: 31°C [Pensky-Martens Closed Cup]

: Not relevant/applicable due to nature of the product.

UEL: 13.74% (1-Methoxy-2-propanol)

: 1.5 kPa (10.9 mm Hg) Vapour pressure

Relative vapour density : 3.1 [Air = 1] : 1.67

Relative density Solubility(ies)

Media	Result
cold water	Not soluble

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

# Auto-ignition temperature

Ingredient name	°C	°F	Method
1-Methoxy-2-propanol	286	546.8	
Castor Oil Derivative	380	716	

Decomposition temperature : Not relevant/applicable due to nature of the product.

: Kinematic (40°C): >20.5 mm<sup>2</sup>/s **Viscosity** 

Explosive properties : Under normal conditions of storage and use, hazardous reactions will not occur.

Date of issue/Date of revision Version : 17 : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 9/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

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

Oxidising properties

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Particle characteristics** 

Median particle size : Not relevant/applicable due to nature of the product.

9.2 Other information

**Heat of combustion** : 4.629 kJ/g

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

**10.5 Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidising 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 vapour 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.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

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

# **Acute toxicity**

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 Version : 17 10/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	LD50 Dermal	Rabbit	20 g/kg	-
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-

# **Acute toxicity estimates**

No data available

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
1-Methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

: Not available.

**Sensitisation** 

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
1-Methoxy-2-propanol	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Med. Aliphatic Hydrocarbon Solvent	Category 1	-	central nervous system (CNS)

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 1711/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **SECTION 11: Toxicological information**

# **Aspiration hazard**

Product/ingredient name	Result
Med. Aliphatic Hydrocarbon Solvent	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
Zinc Phosphate	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
zinc oxide		Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 1.1 ppm 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.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
No data available			

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Zinc Phosphate		60960	High
zinc oxide	-	28960	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

Not available.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 1712/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **SECTION 12: Ecological information**

#### 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 minimised 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

European waste catalogue (EWC)

: Yes.

: 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 minimised 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)

Special precautions

: packaging containing residues of or contaminated by hazardous substances 15 01 10\*

: 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT. Marine pollutant (Zinc Phosphate, Zinc Oxide)	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	III	III	III

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 1713/17

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II MACROPOXY M922M Surface Tolerant - Base

M922MB

# **SECTION 14: Transport information**

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.  Tunnel code D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules F-E, S-E	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.

14.7 Maritime transport in bulk according to IMO

instruments

: Not applicable.

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 authorisation

### **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	%	Designation [Usage]
MACROPOXY M922M Surface Tolerant - Base	≥90	3
4,4'-isopropylidenediphenol	<0.01	66

Labelling : Not applicable.

Other EU regulations

VOC content (2010/75/EU) : 13.2 w/w

> 221 g/l

Industrial emissions

: Listed

(integrated pollution prevention and control) -

Air

Industrial emissions (integrated pollution prevention and control) - : Listed

Water

**Explosive precursors** 

: Not applicable.

Seveso Directive

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 Version : 17 14/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# **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**

Product/ingredient name	List name	Name on list	Classification	Notes
Epichlorohydrin	- WEL	1-chloro- 2,3-epoxypropane; alpha-chloropropylene oxide; ECH	Carc.	-

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

# **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

**CEPE** Guidelines

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

Classification	Justification
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373	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	

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated

exposure.

H373 May cause damage to organs through prolonged or repeated

exposure.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov, 2023 Version : 17 15/17

MACROPOXY M922M Surface Tolerant - Base

M922MB

# SECTION 16: Other information

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications

[CLP/GHS]

: Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category

Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD -

Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD -Aquatic Chronic 2

Category 2

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

**EXPOSURE - Category 1** 

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

**EXPOSURE - Category 2** 

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

**EXPOSURE - Category 3** 

Date of printing : 15, Apr, 2024.

Date of issue/ Date of

revision

: 15, Apr, 2024

Date of previous issue : 01, Nov, 2023

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

information.

Version : 17

# **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 make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned 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 may change later the composition, hazards and risks of the product. Products shall should 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 the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining 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,

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 01, Nov. 2023 Version : 17 16/17

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
MACROPOXY M922M Surface Tolerant - Base
M922MB

# **SECTION 16: Other information**

the manufacturer cannot be held responsible for SDSs obtained from any other source.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 01, Nov, 2023Version: 17