# SAFETY DATA SHEET

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

1.1 Product identifier

Product name : MACROPOXY M262 Epoxy Finish - Base

Product code : M262B

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** : +353 1 809 2166 (08:00-22:00)

**Supplier** 

**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 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

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.

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#### **SECTION 2: Hazards identification**

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

#### 2.2 Label elements

Hazard pictograms







Signal word : Danger

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

May be fatal if swallowed and enters airways.

Causes skin irritation.

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

Harmful 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. Avoid breathing vapour.

Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce

vomiting.

Storage: Not applicable.Disposal: Not applicable.

Hazardous ingredients : 4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-

2,3-epoxypropane

Hydrocarbons, C9, aromatics

Reaction Product: Bisphenol-A-(Epichlorhydrin) Epoxy Resin (Number Average

Molecular Weight 700-1100)

Formaldehyde (max.)

Supplemental label

elements

Contains epoxy constituents. May produce an allergic reaction.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist. 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

0.1% or higher.

Other hazards which do not result in classification

: None known.

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

3.2 Mixture :

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≤13	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]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: -	≤11	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Reaction Product: Bisphenol-A- (Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight 700-1100)	CAS: 25036-25-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
1-Methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤7.7	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤6.5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Butylated Urea-	CAS: 68002-19-7	≤3	Aquatic Chronic 4,	-	[1]
Formaldehyde Polymer 2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	H413 Repr. 2, H361fd	-	[1]
Formaldehyde (max.)	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350	ATE [Oral] = 100 mg/kg ATE [Dermal] = 270 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: $C \ge 25\%$ Skin Irrit. 2, H315: $5\% \le C < 25\%$ Eye Dam. 1, H318: $C \ge 25\%$ Eye Irrit. 2, H319: $5\% \le C < 25\%$ Skin Sens. 1, H317: $C \ge 0.2\%$	
			See Section 16 for the full text of the H statements declared above.		

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

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*: 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.

If swallowed, seek medical advice immediately and show the 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. 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 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), Reaction Product: Bisphenol-A-(Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight 700-1100). 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.

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#### SECTION 4: First aid measures

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.

#### **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).

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

# 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.

# 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)

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.

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#### 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
1-Methoxy-2-propanol	NAOSH (Ireland, 5/2021). Notes: EU derived Occupational Exposure Limit Values  OELV-8hr: 100 ppm 8 hours.  OELV-8hr: 375 mg/m³ 8 hours.  OELV-15min: 150 ppm 15 minutes.  OELV-15min: 568 mg/m³ 15 minutes.
Xylene, mixed isomers	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values  OELV-8hr: 50 ppm 8 hours. OELV-8hr: 221 mg/m³ 8 hours. OELV-15min: 100 ppm 15 minutes. OELV-15min: 442 mg/m³ 15 minutes.
Formaldehyde (max.)	NAOSH (Ireland, 5/2021). Sensitization potential. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 0.3 ppm 8 hours. OELV-15min: 0.6 ppm 15 minutes. OELV-15min: 0.738 mg/m³ 15 minutes. OELV-8hr: 0.37 mg/m³ 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

# 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**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
1-Methoxy-2-propanol		Short term Inhalation	553.5 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	369 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation		General population [Consumers]	Systemic
	DNEL	Long term Dermal	78 mg/kg	General	Systemic

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

			1/ 1		
			bw/day	population	
				[Consumers]	
	DNEL	Long term Oral	33 mg/kg	General	Systemic
			bw/day	population	•
			y	[Consumers]	
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m <sup>3</sup>	Workers	Systemic
Aylerie, mixed isomers					
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
				population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	289 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	3		,
		[	442 mg/m³	Workers	Local
	DIVLL	Inhalation	772 mg/m	VVOIRCIS	Local
	DAIE		05.0	0	01
	DNEL		65.3 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	174 mg/m³	1	Systemic
		Inhalation		population	
	DNEL	Long term Oral	1.5 mg/kg		Systemic
	DINEL	Long term Oral	1.5 mg/kg		Systemic
				population	
2-Ethyl-2-(hydroxymethyl)	DNEL	Long term Dermal	0.94 mg/kg	Workers	Systemic
-1,3-propanediol					
	DNEL	Long term	3.3 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			•

#### **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	_	

#### 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 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** : Wear suitable gloves tested to EN374.

Gloves

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

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.

#### 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.

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#### **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: White.Odour: Paint

Odour threshold : Not Available (Not Tested).

pH : 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

: 120°C

Flash point

: Closed cup: 29°C [Pensky-Martens Closed Cup]

Evaporation rate

: 0.8 (butyl acetate = 1)

Flammability
Lower and upper explosion

: Flammable liquid.

limit

: LEL: 0.7% (Light Aromatic Hydrocarbons) UEL: 13.74% (1-Methoxy-2-propanol)

Vapour pressure

: 1.5 kPa (10.9 mm Hg)

Relative vapour density

: 3.1 [Air = 1]

Result
Not soluble

Relative density

: 1.5

Solubility(ies)

:

cold water		

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

water

Media

Auto-ignition temperature

Ingredient name	°C	°F	Method
1-Methoxy-2-propanol	286	546.8	

Decomposition temperature

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

Viscosity

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

Explosive properties Oxidising properties Under normal conditions of storage and use, hazardous reactions will not occur.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 : 9.291 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.

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#### **SECTION 10: Stability and reactivity**

10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition products.

produci

**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 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), Reaction Product: Bisphenol-A-(Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight 700-1100). May produce an allergic reaction.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Hydrocarbons, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	LD50 Oral	Rat	14000 mg/kg	-
Formaldehyde (max.)	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

#### **Acute toxicity estimates**

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#### **SECTION 11: Toxicological information**

Route	ATE value	
Dermal Inhalation (gases)	19524.91 mg/kg 118924.45 ppm	
initiation (gases)	110024.40 ppm	

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
Hydrocarbons, C9, aromatics	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
1-Methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	_	500 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Formaldehyde (max.)	Eyes - Mild irritant	Human	-	6 minutes 1	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 ug	-
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Mild irritant	Human	-	72 hours 150 ug I	-
	Skin - Mild irritant	Rabbit	-	540 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Severe irritant	Human	-	0.01 %	_
	Skin - Severe irritant	Rabbit	-	0.8 %	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 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)

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#### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, C9, aromatics	Category 3 Category 3		Respiratory tract irritation Narcotic effects
1-Methoxy-2-propanol Xylene, mixed isomers	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

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

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

#### **Aspiration hazard**

Product/ingredient name	Result	
Hydrocarbons, C9, aromatics Xylene, mixed isomers	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	Acute EC50 13000000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 14400000 μg/l Marine water	Fish - Cyprinodon variegatus	96 hours
Formaldehyde (max.)	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.442 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 3.26 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Embryo	48 hours
	Acute LC50 11.41 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 μg/l Marine water	Algae - <i>Phyllospora comosa</i> - Embryo	96 hours
	Chronic NOEC 3000 ppm Fresh water	Crustaceans - Astacus astacus - Egg	21 days
	Chronic NOEC 1.56 mg/l Fresh water	Fish - Oreochromis niloticus - Fingerling	12 weeks

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#### **SECTION 12: Ecological information**

#### 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
Xylene, mixed isomers	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane Hydrocarbons, C9, aromatics	-	31 10 to 2500	Low
Xylene, mixed isomers 2-Ethyl-2-(hydroxymethyl) -1,3-propanediol		8.1 to 25.9 <1	Low Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

*Mobility* : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **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** : Ye

European waste catalogue (EWC)

: waste paint and varnish containing organic solvents or other hazardous substances

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#### **SECTION 13: Disposal considerations**

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

: 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	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
Additional information	Tunnel code D/E	Emergency schedules F-E, S-E	-

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.

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

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 M262 Epoxy Finish - Base	≥90	3
formaldehyde	<0.1	72
toluene	≤0.1	48
4,4'-isopropylidenediphenol	<0.01	66

**Labelling** : Not applicable.

Other EU regulations

VOC content (2010/75/EU) : 26.3 w/w

393 **g/l** 

**Explosive precursors**: Not applicable.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
Formaldehyde (max.)	Ireland Occupational Exposure Limits	formaldehyde	Carc1B	-

#### 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 (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

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

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]

Classi	fication	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 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
Full text of abbreviated H statements	: H225 H226 H301 H304 H311 H312 H314 H315 H317 H318 H319 H331 H332 H335 H336 H341 H350 H361fd H373 H411 H412 H413 EUH066	Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Toxic if inhaled. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life. Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 2 Aquatic Chronic 4 Asp. Tox. 1 Carc. 1B Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2	Category 2 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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

Flam. Liq. 3

Muta. 2

Repr. 2

Skin Corr. 1B

Skin Irrit. 2

FLAMMABLE LIQUIDS - Category 3

GERM CELL MUTAGENICITY - Category 2

REPRODUCTIVE TOXICITY - Category 2

SKIN CORROSION/IRRITATION - Category 1B

SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

**EXPOSURE - Category 2** 

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

**EXPOSURE - Category 3** 

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

information.

Version : 9

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

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# SUMI Safe Use of Mixtures Information for end-users

**Title**: Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidised bed or curtain coating (local exhaust ventilation only)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Contributing activity	Process category Maximum		Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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See chapter 8 of this Safety Data Sheet for specifications.





#### **Disclaimer**

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

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# SUMI Safe Use of Mixtures Information for end-users

Title : Professional application of coatings and inks by spraying-Outdoor

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

#### General description of the process covered

Outdoor spray painting by professionals for general applications (e.g. decorative)

# **Operational conditions**

Place of use : Outdoor use

#### Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	15 minutes to 1 hour	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Outdoors	3 - 5	
Professional application of coatings and inks by spraying	PROC11	15 minutes to 1 hour	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	15 minutes to 1 hour	Outdoors	3 - 5	
Cleaning	PROC05	15 minutes to 1 hour	Outdoors	3 - 5	
Waste management	PROC08a	15 minutes to 1 hour	Outdoors	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Professional application of coatings and inks by spraying	PROC11	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.	

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			••	spraying-Outdoor
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

Professional application of coatings and inks by

See chapter 8 of this Safety Data Sheet for specifications.

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#### **Disclaimer**

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with walk-in spray booth

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Preparation of material for application  Loading of application  PROC08b  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  5 - coated parts before curing  Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Ref star star star star star star star star	ach (air changes per hour)  5 - 10  5 - 10  Refer to relevant technical standards
application  Loading of application equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Ref star  Application equipment cleaning outside booth  Waste management  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation	5 - 10  Refer to relevant technical
equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Ref star  Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Ref star  Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Frocess category (ies)  Preparation of material for application  Loading of application equipment and handling of  PROC08b  None  Use eye protection according to EN 166.	Refer to relevant technical
coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Local exhaust ventilation  Ref star  Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Frocus of the star	
stoving and other technologies  Cleaning  PROC05  More than 4 hours  Local exhaust ventilation  Ref star  Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Frocess category (ies)  Process category (ies)  PROC05  Respiratory  Eye  Use eye protection according to EN 166.  We according to EN 166.  We guipment and handling of	
Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Frocess category (ies)  Preparation of material for application  Loading of application  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Frocess category (ies)  None  Use eye protection according to EN 166.  Use eye protection according to EN 166.  We equipment and handling of	5 - 10
Cleaning outside booth   Waste management   PROC08b   More than 4 hours   Enhanced (mechanical) room   5 -	Refer to relevant technical standards
Contributing activity  Process category (ies)  Preparation of material for application  Loading of application  PROC08b  PROC08b  None  Ventilation  Respiratory  Use eye protection according to EN 166.  Use eye protection  according to EN 166.  We equipment and handling of	5 - 10
Preparation of material for application  PROC05  None  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Use eye protection we equipment and handling of	5 - 10
application according to EN 166. test  Loading of application PROC08b None Use eye protection according to EN 166. test  equipment and handling of test	Hands
equipment and handling of according to EN 166. test	Wear suitable gloves tested to EN374.
1 · · ·   -	Wear suitable gloves tested to EN374.
	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies PROC04 None None None	None
	Wear suitable gloves tested to EN374.
Application equipment PROC05 None Use eye protection We	

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MACROPOXY M262 Epo	xy Finisn - Base	ınaustrıaı spray p	painting, waik-in booth	
cleaning outside booth			according to EN 166.	tested to EN374.
Waste management	PROC08b		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.







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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

# **Operational conditions**

Place of use : Indoor use

#### Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	tion	
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidised bed or curtain coating (enclosed application)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventil	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)		
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards		
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards		
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	None	None		
Film formation - force drying, stoving and other technologies	PROC02	None	None	None		
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		

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#### spraying-Enclosed Application equipment PROC05 None Use eye protection Wear suitable gloves tested to EN374. cleaning outside booth according to EN 166. Waste management PROC08b None Use eye protection Wear suitable gloves according to EN 166. tested to EN374.

Industrial application of coatings and inks by other than

See chapter 8 of this Safety Data Sheet for specifications.

MACROPOXY M262 Epoxy Finish - Base





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# SUMI Safe Use of Mixtures Information for end-users

Title : Professional application of coatings and inks by spraying-Indoor

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

#### General description of the process covered

Indoor spray painting by professionals for general applications (e.g. decorative), with general room ventilation only (open doors/windows)

# **Operational conditions**

Place of use : Indoor use

### Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	ation
	(ies)	duration	Туре	ach (air changes per hour)
Preparation of material for application	PROC05	15 minutes to 1 hour	Good general room ventilation	3 - 5
Loading of application equipment and handling of coated parts before curing	PROC08a	15 minutes to 1 hour	Good general room ventilation	3 - 5
Professional application of coatings and inks by spraying	PROC11	15 minutes to 1 hour	Good general room ventilation	3 - 5
Film formation - force drying, stoving and other technologies	PROC04	15 minutes to 1 hour	Good general room ventilation	3 - 5
Cleaning	PROC05	15 minutes to 1 hour	Good general room ventilation	3 - 5
Waste management	PROC08a	15 minutes to 1 hour	Good general room ventilation	3 - 5
Contributing activity	Process category (ies)	Respiratory	Eye	Hands
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.
Loading of application equipment and handling of coated parts before curing	PROC08a	None	one Use eye protection according to EN 166.	
Professional application of coatings and inks by spraying	PROC11	conforming to EN140 with an assigned protection according to EN 166.		Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.
Film formation - force drying, stoving and other technologies	PROC04	None None		None
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic'

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•				spraying-Indoor
				employee training.
Waste management	PROC08a	None	according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

Professional application of coatings and inks by

See chapter 8 of this Safety Data Sheet for specifications.

MACROPOXY M262 Epoxy Finish - Base





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# Title : Professional painting, outdoor brush/roller

Information for end-users

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Outdoor painting by professionals with brush or roller

# **Operational conditions**

Place of use : Outdoor use

#### Risk management measures (RMM)

Contributing activity			Ventila	lation		
	(ies)	duration	Туре	ach (air changes per hour)		
Preparation of material for application	PROC05	More than 4 hours	Outdoors	3 - 5		
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Outdoors	3 - 5		
Professional application of coatings and inks by brush or roller	PROC10	More than 4 hours	Outdoors	3 - 5		
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Outdoors	3 - 5		
Cleaning	PROC05	More than 4 hours	Outdoors	3 - 5		
Waste management	PROC08a	More than 4 hours	Outdoors	3 - 5		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Professional application of coatings and inks by brush or roller	PROC10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Film formation - force drying, stoving and other technologies	PROC04	None	None	None		
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		

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#### Title : Professional painting, indoor brush/roller

Information for end-users

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Indoor painting by professionals with brush or roller, with good general room ventilation (open doors/windows)

# **Operational conditions**

Place of use : Indoor use

#### Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	ation	
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Good general room ventilation	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Good general room ventilation	3 - 5	
Professional application of coatings and inks by brush or roller	PROC10	More than 4 hours	Good general room ventilation	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation	3 - 5	
Cleaning	PROC05	More than 4 hours	Good general room ventilation	3 - 5	
Waste management	PROC08a	More than 4 hours	Good general room ventilation	3 - 5	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Professional application of coatings and inks by brush or roller	PROC10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with fully-enclosed spraying

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation			
	(ies)	duration	Туре	ach (air changes per hour)		
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent		
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards		
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands		
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Industrial application of coatings and inks by spraying	PROC07	None	None	None		
Film formation - force drying, stoving and other technologies	PROC02	None	None	None		
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
Application equipment cleaning outside booth	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		
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MACROPOXY M262 Epoxy Finish - BaseIndustrial spray painting, enclosedWaste managementPROC08bNoneUse eye protection according to EN 166.Wear suitable gloves tested to EN374.

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