SAFETY DATA SHEET

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

		-
1.1 Product identifier		
Product name	: Zinc Clad™ II EU Ethyl Zinc Silicate Primer - Additive	
Product code	: D5V2A	
1.2 Relevant identified uses	s 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 o sheet	f the safety data	
Sherwin-Williams UK Limited Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	d - Protective & Marine	
The Sherwin-Williams Comp Inver France SAS 2 Rue Jean Revaus - BP 80 Thouars CEDEX France		
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com	
1.4 Emergency telephone n	umber	
National advisory body/Po	ison Center	
Telephone number	: 421 2 5477 4166	
<u>Supplier</u>		
Telephone number	: +(44)-870-8200 418	
Hours of operation	: Emergency contact available 24 hours a day	
SECTION 2: Hazards id	entification	
2.1 Classification of the sub	ostance or mixture	
Product definition	: Mixture	
Classification according to	D Regulation (EC) No. 1272/2008 [CLP/GHS]	
Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 2, H411		
•	hazardous according to Regulation (EC) 1272/2008 as amended.	
See Section 16 for the full te	xt of the H statements declared above.	
See Section 11 for more det	ailed information on health effects and symptoms.	

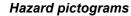
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SECTION 2: Hazards identification

2.2 Label elements





Signal word	: Danger	
Hazard statements	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	: 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 vapor.	
Response	: Collect spillage. IF INHALED: Call a POISON CENTER or doctor if you feel unwell.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Hazardous ingredients	: 1-Methoxy-2-propanol Ethyl Polysilicate	
Supplemental label elements	: 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
1-Methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
Ethyl Polysilicate	REACH #: 01-2120243816-52 EC: 234-324-0 CAS: 11099-06-2	≥25 - ≤50	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	-	[1]
Ethyl Silicate	EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
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				SHW-A4-EU-CLP44-S	к

SECTION 3: Composition/information on ingredients

REACH #:	≤10	Flam. Liq. 2, H225	-	[1] [2]
01-2119457610-43	-10	Eye Irrit. 2, H319		['][~]
		,		
REACH #:	≤1	Flam. Lig. 2, H225	ATE [Oral] = 100	[1] [2]
01-2119433307-44		Acute Tox. 3, H301	mg/kg	
EC: 200-659-6		Acute Tox. 3, H311	ATE [Dermal] =	
CAS: 67-56-1		Acute Tox. 3, H331	300 mg/kg	
Index: 603-001-00-X		STOT SE 1, H370	ATE [Inhalation	
			(vapours)] = 3 mg/l	
	-0.0		$3\% \le C < 10\%$	[4] [0]
	<0.3	•	-	[1] [2]
Index. 003-100-00-0				
		-		
	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X EC: 216-455-5 CAS: 1589-47-5 <0.3	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 REACH #: 01-2119433307-44 ≤1 EC: 200-659-6 Acute Tox. 3, H301 CAS: 67-56-1 Acute Tox. 3, H311 Index: 603-001-00-X STOT SE 1, H370 EC: 216-455-5 <0.3	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

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 me	eas	sures
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 recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

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

Zinc Clad™ II EU Ethvl Zinc Silicate Primer - Additive D5V2A

SECTION 4: First aid measures

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting	m	easures
5.1 Extinguishing media Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO ₂ , powders, water spray or mist.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising fi	ron	n 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 I	rel	ease measures
6.1 Personal precautions, pre	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
		Keep unnecessary and unprotected personnel from entering.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions	 Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and materials for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. 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 Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.
7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Contaminated absorbent material may pose the same hazard as the spilled product. Store in closed original container at temperatures between 5°C and 25°C.

SECTION 7: Handling and storage

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.

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	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin.
	TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
	STEL: 568 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes.
Ethyl Silicate	Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 44 mg/m ³ 8 hours. TWA: 5 ppm 8 hours.
Ethanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 960 mg/m ³ 8 hours. TWA: 500 ppm 8 hours. STEL: 1920 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes.
Methanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin. TWA: 260 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
2-Methoxy-1-propanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020).
	Absorbed through skin.
	TWA: 19 mg/m³ 8 hours. TWA: 5 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
methanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 70.7 μmol/mmol creatinine, methanol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 20 mg/g creatinine, methanol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 938 μmol/l, methanol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 30 mg/l, methanol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.

SECTION 8: Exposure controls/personal protection

Recommended monitoring	: Reference should be made to monitoring standards, such as the following:					
procedures	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.					
	Devides services of all useds are a should be devided as the all times. Including					

: 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	DNEL	Short term Inhalation	553.5 mg/ m ³	Workers	Local
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	33 mg/kg bw/day	General population [Consumers]	Systemic
Ethanol	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
	DNEL DNEL	Long term Dermal Long term Inhalation	343 mg/kg 950 mg/m³	Workers Workers	Systemic Systemic
	DNEL	Short term Inhalation	950 mg/m³	General population [Human via the environment]	Local
	DNEL	Long term Dermal	206 mg/kg	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	114 mg/m³	General population [Human via the environment]	Systemic
	DNEL	Long term Oral	87 mg/kg	General population [Human via the environment]	Systemic

PNECs

SECTION 8: Exposure controls/personal protection

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		
Ethanol	Marine water	0.79 mg/l	-
	Fresh water sediment	3.6 mg/kg	-
	Marine water sediment	2.9 mg/kg	-
	Soil	0.63 mg/kg	-
	Fresh water	0.96 mg/l	-
	Sewage Treatment	580 mg/l	-
	Plant		
	Secondary Poisoning	720 mg/kg	-

8.2 Exposure controls	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
	 Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection mea	sures
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	 Gloves for short term exposure/splash protection (less than 10 min.): Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with chemicals. Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG)
	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used
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SECTION 8: Exposure controls/personal protection

	 correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	 Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: 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

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: White.	
Odor	: Paint	
Odor threshold	: Not Available (Not Tested).	
рH	 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	: 77°C	
Flash point	: Closed cup: 10°C [Pensky-Martens Closed Cup]	
Evaporation rate	: 1.6 (butyl acetate = 1)	
Flammability	: Flammable liquid.	
Lower and upper explosion limit	 LEL: 1.5% (1-Methoxy-2-propanol) UEL: 19% (Ethanol) 	
Vapor pressure	: 5.9 kPa (44 mm Hg)	
Relative vapor density	: 1 [Air = 1]	
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cold water

SECTION 9: Physical and chemical properties Relative density : 0.97 Solubility(ies) : Media Result

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

5

Not soluble

Auto-ignition temperature

Ingredient name			°C		°F		Method
1-Methoxy-2-propanol			286		546.8		
Decomposition temperature		: Not rele	evant/applie	cable du	e to nature	of the p	roduct.
Viscosity		: Kinema	tic (40°C):	>20.5 m	m²/s		
Explosive properties		: Under r	normal con	ditions o	f storage a	nd use,	hazardous reactions will not occu
Oxidizing properties		: Under r	normal con	ditions o	f storage a	nd use,	hazardous reactions will not occu
Particle characteristics							
Median particle size		: Not rele	vant/applic	cable due	e to nature	of the p	roduct.
9.2 Other information							
Heat of combustion		: 16.709	kJ/g				
SECTION 10: Stability an	d١	reactivity					
10.1 Reactivity	:	No specific	test data r	elated to	reactivity a	available	e for this product or its ingredients
10.2 Chemical stability	:	Stable unde	er recomm	ended st	orage and	handlin	g conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under norm	nal conditic	ons of sto	orage and u	ıse, haz	ardous reactions will not occur.
10.4 Conditions to avoid		When expo products.	sed to higl	n temper	atures may	/ produc	e hazardous decomposition
10.5 Incompatible materials		Keep away oxidizing ag					nt strong exothermic reactions:
10.6 Hazardous decomposition products		Decomposi carbon diox	•				g materials: carbon monoxide,

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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

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

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SECTION 11: Toxicological information

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.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
Ethyl Silicate	LD50 Oral	Rat	6270 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Methanol	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Acute toxicity estimates

Route	ATE value		
Oral	23646.87 mg/kg		
Dermal	70940.6 mg/kg		
Inhalation (vapors)	98.11 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-Methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ethyl Silicate	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Severe irritant	Guinea pig	-	2 hours 2500	-
				ppm	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		D 11.11		mg	
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	The Article Article Article Article	D. L. K		mg	
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

Conclusion/Summary Sensitization

: Not available.

SECTION 11: Toxicological information

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 Ethyl Silicate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Methanol 2-Methoxy-1-propanol	Category 1 Category 3	-	- Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available

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
Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki -</i> Larvae	12 weeks
ate of issue/Date of revision :	15, Apr, 2024 Date of previous issue	: 02, Oct, 2023 Version : 1	2 12/3
		SHW-A4-EU-C	LP44-SK

SECTION 12: Ecological information

Methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
		- Adult	
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
	_	Neonate	
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - <i>Ulva pertusa</i>	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		Biodeg	radability
Ethanol	-		-		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Methanol	-	<10	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

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

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.
<u>Packaging</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	 packaging containing residues of or contaminated by hazardous substances 15 01 10*
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information	
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	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL. Marine pollutant (Ethyl Polysilicate)	PAINT RELATED MATERIAL
14.3 Transport Hazard Class(es)/ Label(s)			3
14.4 Packing group	II	П	11
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Special provisions</u> 640 (C) <u>Tunnel code</u> D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-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.

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

Zinc Clad™ II EU Ethvl Zinc Silicate Primer - Additive D5V2A

SECTION 14: Transport information

14.7 Maritime transport in : Not applicable.

bulk according to IMO instruments

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

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

Product/ingredient name Zinc Clad™ II EU Ethyl Zinc Silicate Primer - Additive methanol		%	Designation [Usage] 3 69
		≥90 ≤1	
Labeling <u>Other EU regulations</u>	: Not applicable.		
VOC content (2010/75/EU)	: 56.9 w/w 554 g/l		
Explosive precursors <u>Seveso Directive</u>	: Not applicable.		
major accident hazards.	calculation for determining whether a site is	s within the scope	of the Seveso Directive on
<u>National regulations</u> 5.2 Chemical Safety ssessment	: No Chemical Safety Assessment has be	een 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
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SECTION 16: Other information

Key literature references	: Regulation (EC) No. 1272/2008 [CLP]
and sources for data	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. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 2, H411		On basis of test data Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H226FlammH301ToxicH311ToxicH315CauseH318CauseH319CauseH331ToxicH332HarmfH335May causeH336May causeH360DMay dagH370Cause	flammable liquid and vapor. nable liquid and vapor. if swallowed. in contact with skin. es skin irritation. es serious eye damage. es serious eye irritation. if inhaled. ause respiratory irritation. ause drowsiness or dizziness. amage the unborn child. es damage to organs. to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 3 Acute Tox. 4 Aquatic Chronic 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 1B Skin Irrit. 2 STOT SE 1 STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 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	: 02, Oct, 2023	
	: If there is no previous va information.	alidation date please contact your supplier for more
Version	: 12	
Notice to reader		

SECTION 16: Other information

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

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

• The product is classified as hazardous for health

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

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

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	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	More than 4 hours Enhanced (mechanical) room tentilation			
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	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 spraying	PROC07			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.		

Date of issue/Date of revision : ***

: No previous validation Version

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See chapter 8 of this Safety Data Sheet for specifications.



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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.

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	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 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	More than 4 hours Local exhaust ventilation			
Application equipment cleaning outside booth	PROC05	More than 4 hours	More than 4 hours Enhanced (mechanical) room ventilation			
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10		
Contributing activity	Process category (ies)	Respiratory	Еуе	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	Wear suitable gloves tested to EN374.		
Cleaning			according to EN 166.	lested to ENS/4.		

	Zinc Clad™ II EU Ethyl Zinc Silicate Primer - Additive			Industrial sp	ray painting, enclosed
_	Waste management	PROC08b	None	, ,	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

: 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

Title

: 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	1 to 4 hours	Good general room ventilation	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	1 to 4 hours	Good general room ventilation	3 - 5	
Professional application of coatings and inks by spraying	PROC11	1 to 4 hours	1 to 4 hours Good general room ventilation 3		
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours Good general room ventilation 3		3 - 5	
Cleaning	PROC05	1 to 4 hours	Good general room ventilation	3 - 5	
Waste management	PROC08a	1 to 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 spraying	PROC11	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.	

See chapter 8 of this Safety Data Sheet for specifications.

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SUMI Safe Use of Mixtures Information for end-users

: 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

Title

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	1 to 4 hours	Outdoors	3 - 5	
Loading of application equipment and handling of coated parts before curing	PROC08a	1 to 4 hours	Outdoors	3 - 5	
Professional application of coatings and inks by spraying	PROC11	1 to 4 hours	Outdoors	3 - 5	
Film formation - force drying, stoving and other technologies	PROC04	1 to 4 hours	Outdoors	3 - 5	
Cleaning	PROC05	1 to 4 hours	Outdoors	3 - 5	
Waste management	PROC08a	1 to 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 spraying	PROC11	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.	

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, 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)

Contributing activity	Process category	Maximum	Ventilation		
	(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	_ocal exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	_ocal exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05		than 4 hours Enhanced (mechanical) room ventilation		
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	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
	PROC04	None	None	None	
Film formation - force drying, stoving and other technologies					

Zinc Clad™ II EU Ethyl Zinc Silicate Primer - Additive			Industrial spray painting, walk-in booth		
Application equipment cleaning outside booth	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.	

See chapter 8 of this Safety Data Sheet for specifications.



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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.

SUMI Safe Use of Mixtures Information for end-users

Title : Professional painting, outdoor brush/roller

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	Process category	Maximum	Ventilation		
(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	More than 4 hours Outdoors 3		
Professional application of coatings and inks by brush or roller	PROC10	More than 4 hours	lore than 4 hours Outdoors 3		
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	None Use eye protection according to EN 166.		
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.	

See chapter 8 of this Safety Data Sheet for specifications.

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Disclaimer

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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

: 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, fluidized bed or curtain coating (enclosed application)

Operational conditions

Place of use

Title

: 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	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	More than 4 hours Local exhaust ventilation		
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.	

Zinc Clad™ II EU Ethyl Zinc Silicate Primer - Additive			Industrial appl	ication of coatings	and inks by other than spraying-Enclosed
Application equipment cleaning outside booth	PROC05	None		se eye protection ccording to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08b	None		se eye protection ccording to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



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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.

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, fluidized bed or curtain coating (local exhaust ventilation only)

Operational conditions

Place of use

: Indoor use

Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum duration	Ventilation	
			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
	· · ·			
	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Preparation of material for application Loading of application equipment and handling of coated parts before curing		None		
application Loading of application equipment and handling of	PROC05		according to EN 166. Use eye protection	tested to EN374. Wear suitable gloves
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by other than spraying Film formation - force drying,	PROC05 PROC08b	None	according to EN 166. Use eye protection according to EN 166. Use eye protection	tested to EN374. Wear suitable gloves tested to EN374. Wear suitable gloves
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by other	PROC05 PROC08b PROC10, PROC13	None None	according to EN 166. Use eye protection according to EN 166. Use eye protection according to EN 166.	tested to EN374. Wear suitable gloves tested to EN374. Wear suitable gloves tested to EN374.

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SUMI Safe Use of Mixtures Information for end-users

Title : Professional painting, indoor brush/roller

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 (ies)	Maximum duration	Ventilation	
			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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