40840

SAFETY DATA SHEET

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

1.1 Product identifier

Product name : SM. EPOSSIDICO A.S. METALLIZ. ALLUMINIO

Product code : 40840

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

Inver S.p.A. con Unico Socio Via di Corticella 205 - Bologna Phone: +39 051 6380411

e-mail address of person responsible for this SDS

: minerbio.regulatory@sherwin.com

1.4 Emergency telephone number

National advisory body/Poison Centre

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

Supplier

Telephone number : +39 051 6606811 **Hours of operation** : 08:30 - 17:30

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. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d

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.

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

2.2 Label elements

Hazard pictograms







Signal word : Danger

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SECTION 2: Hazards identification

Hazard statements: Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of damaging the unborn child. Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: Obtain special instructions before use. Wear protective gloves, protective clothing,

eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after

handling.

Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.Hazardous ingredients: Epoxy Polymer

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Toluene

4-MorpholinecarboxaldehydeFOR INDUSTRIAL USE ONLY

Supplemental label

elements

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.

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
Epoxy Polymer	EC: 500-180-5 CAS: 67989-52-0	≥10 - ≤25	Skin Sens. 1, H317	-	[1]
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane		≥10 - ≤23	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]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≤8.4	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	-	[1] [2]
Xylene, mixed isomers	REACH #:	<10	Flam. Liq. 3, H226	ATE [Dermal] =	[1] [2]

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SECTION 3: Composition/information on ingredients

SECTION 3. Compositi		i iligi edler			
	01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9		Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	
Methyl Ethyl Ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤5	Asp. Tox. 1, H304 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
1-Methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3.9	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
HYDROCARBONS, C9, aromatics	REACH #: 01-2119455851-35 CAS: - Index: 649-356-00-4	≤1.3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
Hydrocarbons, C9-C11,n-alkanes, isoalkanes,cyclics, <2% aromatics	REACH #: 01-2119463258-33 EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≤1.3	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304	-	[1]
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #:	≤1	Asp. Tox. 1, H304 EUH066	EUH066: C ≥ 20%	[1]
4-Morpholinecarboxaldehyde		<1	Skin Sens. 1, H317	-	[1]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: -	<1	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

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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.

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 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 measures

5.1 Extinguishing media

Suitable extinguishing

: Recommended: alcohol-resistant foam, CO₂, powders, water spray or mist.

Unsuitable extinguishing : Do not use water jet.

media

media

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.

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SECTION 5: Firefighting measures

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).

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

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

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SECTION 7: Handling and storage

explosive mixtures with air.

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.

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
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 384 mg/m³ 15 minutes. TWA: 191 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
Xylene, mixed isomers	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.
Methyl Ethyl Ketone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 899 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 600 mg/m³ 8 hours. TWA: 200 ppm 8 hours.
1-Methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

Biological exposure indices

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
butanone	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 70 μmol/l, butan-2-one [in urine]. Sampling time: post shift.

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	Type	Exposure	Value	Population	Effects
Toluene	DNEL	Short term Inhalation	226 mg/m ³	General population [Human via the environment]	Systemic
	DNEL	Short term Inhalation	226 mg/m ³	General population [Human via the environment]	Local
	DNEL	Long term Dermal	226 mg/m ³	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	226 mg/kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population [Human via the environment]	Systemic
	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population	Local

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SECTION 8: Exposure controls/personal protection

	•	•			
				[Consumers]	
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
				population	
	DNEL	Long term	221 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	289 mg/m ³	Workers	Systemic
		Inhalation			'
	DNEL	Short term	442 mg/m ³	Workers	Local
	J. 122	Inhalation	1 12 1119/111	TV GINGIG	2004.
	DNEL	Long term	65.3 mg/m ³	General	Systemic
	DIVLL	Inhalation	00.0 mg/m	population	Oysternio
	DNEL	Short term	260 mg/m³	General	Local
	DIVEL		260 mg/m ³		Lucai
	DAIEI	Inhalation	474 / 3	population	0
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
				population	
Methyl Ethyl Ketone	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	600 mg/m ³	Workers	Systemic
		Inhalation			*
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	'
				[Consumers]	
	DNEL	Long term	106 mg/m ³	General	Systemic
	J. 122	Inhalation	1001119/111	population	Cycleniic
		Imidiation		[Consumers]	
	DNEL	Long term Oral	31 mg/kg	General	Systemic
	DIVLL	Long term Oral	bw/day	population	Systemic
			DW/day		
4 Mathany O preparat	DNE	Chart tarms	550 5 mm m/	[Consumers]	
1-Methoxy-2-propanol	DNEL	Short term	553.5 mg/	Workers	Local
	DAIEI	Inhalation	m ³	\	0
	DNEL	Long term	369 mg/m ³	Workers	Systemic
	DATE	Inhalation	400 (1		
	DNEL	Long term Dermal	183 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	43.9 mg/m ³		Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Dermal	78 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term Oral	33 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
HYDROCARBONS, C9, aromatics	DNEL	Long term Dermal	25 mg/kg	Workers	Systemic
	J. 1LL	Long tomin Dominal	bw/day		2,01011110
	DNEL	Long term	150 mg/m ³	Workers	Systemic
	DIVLL	Inhalation	100 mg/m	VVOINGIS	Cystoniio
	DNEL	Long term Dermal	11 mg/kg	General	Systemic
	DINEL	Long term Dermal			Cystellic
			bw/day	population	
	ראובי		20 == =1 = 3	[Consumers]	C. rata wai -
	DNEL	Long term	32 mg/m³	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	11 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
Hydrocarbons, C9-C11,n-alkanes,	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic
isoalkanes,cyclics, <2% aromatics			bw/day		
1	1	1	1		1

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SECTION 8: Exposure controls/personal protection

ONEL	Long term Inhalation	871 mg/m³	Workers	Systemic
DNEL	Long term Dermal	bw/day	General population [Consumers]	Systemic
ONEL	Long term Inhalation	185 mg/m³		Systemic
ONEL		125 mg/kg bw/day	General population [Consumers]	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Toluene	Fresh water sediment	0.68 mg/l	Assessment Factors
	Marine water sediment	0.68 mg/l	Assessment Factors
	Sewage Treatment Plant	13.61 mg/l	Assessment Factors
	Soil	2.89 mg/kg	Assessment Factors
	Fresh water sediment	16.39 mg/kg dwt	-
	Marine water sediment	16.39 mg/kg dwt	-
Methyl Ethyl Ketone	Fresh water	55.8 mg/l	-
•	Marine water	55.8 mg/l	-
	Sewage Treatment Plant	709 mg/l	-
	Sediment	284.7 mg/kg dwt	-
	Soil	22.5 mg/kg	-
	Secondary Poisoning	1000 mg/kg	-
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 Plant	100 mg/l	-

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

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

Skin protection

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

: Application methods:

Brush or roller. Approved/certified respirator with organic vapour cartridge. Filter type: A2 P2 (EN14387).

Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls

: Do not allow to enter drains or watercourses.

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

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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 : Grey. Odour : Solvent.

Odour threshold : Not Available (Not Tested).

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

insoluble in water.

Melting point/freezing point

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

Initial boiling point and

boiling range

: 78°C

: Closed cup: 0°C [Pensky-Martens Closed Cup] Flash point

Evaporation rate : 5.6 (butyl acetate = 1) **Flammability** : Flammable liquid.

Lower and upper explosion

limit

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

Vapour pressure : 12.1 kPa (90.6 mm Hg)

Relative vapour density : 2.48 [Air = 1]

Relative density : 1.31

Solubility(ies)

Media	Result
cold water	Not soluble

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

water

Auto-ignition temperature

Ingredient name	°C	°F	Method
Hydrocarbons, C9-C11,n-alkanes, isoalkanes,cyclics, <2% aromatics	228	442.4	
1-Methoxy-2-propanol	286	546.8	
Methyl Ethyl Ketone	475	887	
Toluene	480	896	

Decomposition temperature

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

Viscosity

: Kinematic (40°C): >20.5 mm²/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 : 7.914 kJ/g

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SECTION 10: Stability and reactivity

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

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

10.3 Possibility of hazardous reactions

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

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

products.

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

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.

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	LD50 Dermal	Rabbit	20 g/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-

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SECTION 11: Toxicological information

	LD50 Oral	Rat	6600 mg/kg	-
HYDROCARBONS, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-
Hydrocarbons, C9-C11,n-alkanes, isoalkanes,cyclics, <2% aromatics	LC50 Inhalation Vapour	Rat	8500 mg/m³	4 hours
	LD50 Oral	Rat	>6 g/kg	-
Hydrocarbons, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-

Acute toxicity estimates

Route	ATE value
Dermal	19053.92 mg/kg
Inhalation (gases)	116055.67 ppm

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane		Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	_
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	_	435 mg	_
	Skin - Moderate irritant	Rabbit	_	24 hours 20	- -
	OKIT - Moderate iintant	Rabbit	_	mg	_
	Skin - Moderate 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	-
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	mg 24 hours 14	-
	Chin Madanata innitant	Debbit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
1-Methoxy-2-propanol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
HYDROCARBONS, C9,	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
aromatics				uL	
4-Morpholinecarboxaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin Mild irritant	Rabbit		mg 24 hours 500	
	Skin - Mild irritant	Rappil	-	mg	-
Hydrocarbons, C9, aromatics	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
				uL	

Conclusion/Summary

: Not available.

Sensitisation

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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
Toluene	Category 3	-	Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
Methyl Ethyl Ketone	Category 3	-	Narcotic effects
1-Methoxy-2-propanol	Category 3	-	Narcotic effects
HYDROCARBONS, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Hydrocarbons, C9-C11,n-alkanes, isoalkanes,cyclics, <2% aromatics	Category 3	-	Narcotic effects
Hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Product/ingredient name	Result
Toluene Xylene, mixed isomers HYDROCARBONS, C9, aromatics	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C11,n-alkanes, isoalkanes,cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II SM. EPOSSIDICO A.S. METALLIZ. ALLUMINIO 40840

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
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	Acute LC50 2200 μg/l Fresh water	Fish - Lepomis macrochirus	4 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
HYDROCARBONS, C9,	-	-	Readily
aromatics			

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	-	90	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low
HYDROCARBONS, C9, aromatics	-	10 to 2500	High
Hydrocarbons, C9-C11,n-alkanes, isoalkanes,cyclics, <2% aromatics	-	10 to 2500	High
4-Morpholinecarboxaldehyde Hydrocarbons, C9, aromatics		<1.9 10 to 2500	Low High

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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SECTION 12: Ecological information

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

: Yes.

European waste catalogue (EWC)

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

08 01 11*

Disposal considerations

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal

: The generation of waste should be avoided or 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)

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

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. 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.

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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	II	II	II
14.5 Environmental hazards	No.	No.	No.
Additional information	Special provisions 640 (C) 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.

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]
SM. EPOSSIDICO A.S. METALLIZ. ALLUMINIO	≥90	3
toluene	≤8.4	48
octamethylcyclotetrasiloxane	<0.01	70
decamethylcyclopentasiloxane	≤0.1	70

Labelling : Not applicable.

Other EU regulations

VOC content (2010/75/EU) : 26 w/w

340 g/l

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SECTION 15: Regulatory information

Industrial emissions

: Listed

(integrated pollution prevention and control) -

Air

Industrial emissions

: Listed

(integrated pollution prevention and control) -

Water

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

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

N/A = Not available

Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

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

Commission Regulation (EU) 2020/878

Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

CEPE Guidelines

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

Classification	Justification
1 ,	On basis of test data
,	Calculation method Calculation method
, -	Calculation method Calculation method
Aquatic Chronic 3, H412	Calculation method

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SECTION 16: Other information

Full text of abbreviated H	: H225	Highly flammable liquid and vapour.		
statements	H226	Flammable liquid and vapour.		
	H304	May be fatal if swallowed and enters airways.		
	H312	Harmful in contact with skin.		
	H315	Causes skin irritation.		
	H317	May cause an allergic skin reaction.		
	H319	Causes serious eye irritation.		
	H332	Harmful if inhaled.		
	H335	May cause respiratory irritation.		
	H336	May cause drowsiness or dizziness.		
	H361d	Suspected of damaging the unborn child.		
	H373	May cause damage to organs through prolonged or repeated		
		exposure.		
	H411	Toxic to aquatic life with long lasting effects.		
	H412	Harmful to aquatic life with long lasting effects.		
	EUH066	Repeated exposure may cause skin dryness or cracking.		
Full text of classifications	: Acute Tox. 4	ACUTE TOXICITY - Category 4		
[CLP/GHS]	Aquatic Chronic			
	·	Category 2		
	Aquatic Chronic			
	·	Category 3		
	Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2		
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3		
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2		
	Skin Irrit. 2	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		

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

EXPOSURE - Category 3

information.

Version : 12

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

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SECTION 16: Other information

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 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 PROC05 PROC05 More than 4 hours Enhanced (mechanical) room ventilation PROC08b More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation PROC08b More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Coatings and inks by spraying PROC07 More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation Use eye protection according to EN 166. Loading of application PROC08b None Use eye protection	More than 4 More than 4	hours E v hours L hours E v hours E hours	Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Local exhaust ventilation Enhanced (mechanical) room ventilation Local exhaust ventilation	ach (air changes per hour) 5 - 10 5 - 10 Refer to relevant technical standards 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 Local exhaust ventilation PROC05 More than 4 hours Enhanced (mechanical) room ventilation PROC05 More than 4 hours Local exhaust ventilation Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation Eve Eve Use eye protection according to EN 166. Loading of application PROC08b None Use eye protection	More than 4 More than 4 More than 4 More than 4	hours E v hours L hours E v hours E hours	ventilation Enhanced (mechanical) room ventilation Local exhaust ventilation Enhanced (mechanical) room ventilation Local exhaust ventilation	5 - 10 Refer to relevant technical standards 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 PROC05 More than 4 hours Local exhaust ventilation Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation PROC05 More than 4 hours Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Contributing activity Process category (ies) Preparation of material for application PROC05 None Use eye protection Use eye protection	More than 4 More than 4 More than 4	hours E v hours L hours E hours	ventilation Local exhaust ventilation Enhanced (mechanical) room ventilation Local exhaust ventilation	Refer to relevant technical standards 5 - 10 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 Application equipment cleaning outside booth Waste management PROC08b More than 4 hours Enhanced (mechanical) room ventilation More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Contributing activity Process category (ies) PROC05 Respiratory Use eye protection according to EN 166. Loading of application PROC08b None Use eye protection	More than 4 More than 4 More than 4	hours E hours E	Enhanced (mechanical) room ventilation Local exhaust ventilation	standards 5 - 10 Refer to relevant technical
stoving and other technologies Cleaning PROC05 More than 4 hours Local exhaust ventilation Local exhaust ventilation More than 4 hours Enhanced (mechanical) room ventilation Waste management PROC08b More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Contributing activity Process category (ies) Preparation of material for application PROC08b None Use eye protection according to EN 166. Use eye protection Use eye protection	More than 4	hours E	ventilation ` Local exhaust ventilation	Refer to relevant technical
Application equipment cleaning outside booth Waste management PROC05 More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Contributing activity Process category (ies) Preparation of material for application PROC05 None Use eye protection according to EN 166. Use eye protection Use eye protection	More than 4	hours E		
Cleaning outside booth Ventilation Waste management PROC08b More than 4 hours Enhanced (mechanical) room ventilation Contributing activity Process category (ies) Preparation of material for application PROC05 Loading of application PROC08b None Use eye protection according to EN 166. Use eye protection			Enhanced (machanical) room	
Contributing activity Process category (ies) Preparation of material for application PROC05 None Use eye protection according to EN 166. Use eye protection Use eye protection Use eye protection	More than 4	•		5 - 10
Preparation of material for application PROC05 None Use eye protection according to EN 166. Loading of application PROC08b None Use eye protection Use eye protection	Mole than 4			5 - 10
application according to EN 166. Loading of application PROC08b None Use eye protection	egory Resp	iratory	Eye	Hands
	None			Wear suitable gloves tested to EN374.
equipment and handling of coated parts before curing according to EN 166.	None			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.	apparatus to with an assig	EN 14594 gned protection	according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies PROC04 None None	None		None	None
Cleaning PROC05 None Use eye protection according to EN 166.	None			Wear suitable gloves tested to EN374.
Application equipment PROC05 None Use eye protection	None		Use eye protection	Wear suitable gloves

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cleaning outside booth			according to EN 166.	tested to EN374.
Waste management	PROC08b	None	, , ,	Wear suitable gloves tested to EN374.

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.

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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	•		entilation	
	(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	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		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	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.

SM. EPOSSIDICO A.S. METALLIZ. ALLUMINIO





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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)	(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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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) dura	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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SM. EPOSSIDICO A.S. METALLIZ. ALLUMINIOIndustrial spray painting, enclosedWaste managementPROC08bNoneUse 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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