SAFETY DATA SHEET

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

1.1 Product identifier

Product name : HEAT-FLEX M505 Heat Resisting Matt Finish

Product code : M505

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Paint or paint related material.

: Industrial use only.

1.3 Details of the supplier of the safety data

sheet

Sherwin-Williams UK Limited - Protective & Marine

Coatings Division EMEAI

Tower Works Kestor Street Bolton BL2 2AL

United Kingdom +44 (0) 1204 521771

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

France

e-mail address of person responsible for this SDS

: hse.pm.emea@sherwin.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +385 1 2348 342

Supplier

Telephone number : +(44)-870-8200 418

Hours of operation : Emergency contact available 24 hours a day

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373

Asp. Tox. 1, H304

Aquatic Chronic 2, H411

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

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SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms









Signal word : Danger

Hazard statements: Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation.
Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Avoid release to the environment. Do not breathe vapor.

Response : Collect spillage. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Do NOT induce vomiting.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : Xylene, mixed isomers

Med. Aliphatic Hydrocarbon Solvent

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

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SECTION 3: Composition/information on ingredients

Vulana miyad isamsara	DEACH#	SOE 250	Flow Lie 2 LIONE	ATC [Darge all -	[41 [0]
Xylene, mixed isomers	REACH #: 01-2119488216-32	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H312	ATE [Dermal] = 1100 mg/kg	[1] [2]
	EC: 215-535-7		Acute Tox. 4, H332	ATE [Inhalation	
	CAS: 1330-20-7		Skin Irrit. 2, H315	(gases)] = 6700	
	Index: 601-022-00-9		Eye Irrit. 2, H319	(gases)] = 0700	
	111dex. 001-022-00-9		STOT SE 3, H335	ppiii	
			STOT RE 2, H373		
			Asp. Tox. 1, H304		
Zinc Phosphate	EC: 231-944-3	≥10 - ≤24	Aquatic Acute 1, H400	M [Acute] = 1	[1]
Zillo i illoopilato	CAS: 7779-90-0		Aquatic Chronic 1,	M [Chronic] = 1	[,]
	Index: 030-011-00-6		H410		
Med. Aliphatic Hydrocarbon	EC: 265-191-7	<10	Flam. Liq. 3, H226	_	[1]
Solvent	CAS: 64742-88-7		STOT RE 1, H372		[.,]
	Index: 649-405-00-X		(central nervous		
			system (CNS))		
			Asp. Tox. 1, H304		
			Aquatic Chronic 2,		
			H411		
			EUH066		
Ethylbenzene	REACH #:	<10	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
	01-2119489370-35		Acute Tox. 4, H332	(vapours)] = 11 mg/	
	EC: 202-849-4		STOT RE 2, H373	I	
	CAS: 100-41-4		(hearing organs)		
	Index: 601-023-00-4		Asp. Tox. 1, H304		
			Aquatic Chronic 3,		
			H412		
Hydrocarbons, C9,	REACH #:	≤5	Flam. Liq. 3, H226	-	[1]
aromatics	01-2119455851-35		STOT SE 3, H335		
	EC: 918-668-5		STOT SE 3, H336		
	CAS: -		Asp. Tox. 1, H304		
			Aquatic Chronic 2,		
			H411		
7	DEAGL!	10.74	EUH066	NA 50 4 - 1 4	F43
Zinc Oxide	REACH #:	≤0.74	Aquatic Acute 1, H400	M [Acute] = 1	[1]
	01-2119463881-32		Aquatic Chronic 1,	M [Chronic] = 1	
	EC: 215-222-5		H410		
	CAS: 1314-13-2 Index: 030-013-00-7				
	Index. 030-013-00-7				
			See Section 16 for		
			the full text of the H		
			statements declared		
			above.		

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

Type

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

Eye contact : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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SECTION 4: First aid measures

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.

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

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 measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

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

Hazardous combustion products

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

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

Special protective equipment for fire-fighters

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

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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 vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

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

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes. rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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.

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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

Notes on joint storage

Keep away from: 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.

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
Xylene, mixed isomers	Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours.
Ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m³ 8 hours. ELV: 100 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
ethylbenzene	Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018)

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
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SECTION 8: Exposure controls/personal protection

BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure.

BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure.

BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.

BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.

Recommended monitoring procedures

- : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- : Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
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/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m³	Workers	Local
	L	Inhalation			
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	474 / 2	population	
	DNEL	Short term	174 mg/m³	General	Systemic
	DAIE	Inhalation	4.5	population	0
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
Mad Aliabatia I Ividua aanban Calvant	DNE	l and taken	074 / 3	population	Cyatamia
Med. Aliphatic Hydrocarbon Solvent	DNEL	Long term Inhalation	871 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	185 mg/m ³	General	Systemic
		Inhalation		population	
				[Consumers]	
	DNEL	Long term Oral	125 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
				[Consumers]	
Zinc Oxide	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term	0.5 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic

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SECTION 8: Exposure controls/personal protection

DNEL	Long term	2.5 mg/m ³	General	Systemic
	Inhalation		population	
DNEL	Long term Dermal	83 mg/kg	General	Systemic
		bw/day	population	
DNEL	Long term Oral	0.83 mg/	General	Systemic
		kg bw/day	population	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Zinc Oxide	Fresh water Marine water	0.0206 mg/l 0.0061 mg/l	-
	Sewage Treatment Plant	0.1 mg/l	-
		117.8 mg/kg dwt 56.5 mg/kg dwt 35.6 mg/kg dwt	- -

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 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection : Use safety eyewear designed to protect against splash of liquids.

Hand protection Gloves

: Wear suitable gloves tested to EN374.

: Gloves for 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.

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SECTION 8: Exposure controls/personal protection

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.

: Personnel should wear antistatic clothing made of natural fibers or of high-**Body protection**

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.

Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

: Use a properly fitted, particulate filter respirator complying with an approved Respiratory protection

standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator.

Environmental exposure

controls

: Do not allow to enter drains or watercourses.

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

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. Color Silver. Odor : Paint

Odor threshold : Not Available (Not Tested).

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

insoluble in water.

Melting point/freezing point

Initial boiling point and : 136°C

boiling range Flash point

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

: Closed cup: 28°C [Pensky-Martens Closed Cup]

Evaporation rate : 0.8 (butyl acetate = 1) **Flammability** : Flammable liquid.

: LEL: 0.7% (Light Aromatic Hydrocarbons) Lower and upper explosion

UEL: 7% (Xylene, mixed isomers) limit

Vapor pressure : 0.95 kPa (7.1 mm Hg)

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SECTION 9: Physical and chemical properties

: 3.66 [Air = 1] Relative vapor density

Relative density : 1.13

Solubility(ies)

Media	Result
cold water	Not soluble

Auto-ignition temperature

water

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

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

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

Viscosity : Kinematic (40°C): <20.5 mm²/s

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

Particle characteristics

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

9.2 Other information

Heat of combustion : 15.729 kJ/g

SECTION 10: Stability and reactivity

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

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

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

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

products.

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

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

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

SECTION 11: Toxicological information

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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SECTION 11: Toxicological information

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
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Hydrocarbons, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-

Acute toxicity estimates

Route	ATE value
Dermal Inhalation (gases) Inhalation (vapors)	3250.77 mg/kg 19800.15 ppm 183.7 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Hydrocarbons, C9, aromatics	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

: Not available.

Sensitization

No data available

Conclusion/Summary

: Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
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
Xylene, mixed isomers	Category 2	-	-
Med. Aliphatic Hydrocarbon Solvent	Category 1	-	central nervous system (CNS)
Ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Med. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Ethylbenzene	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.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Zinc Phosphate	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Zinc Oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

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				SHW-A4-EU-CLP44-HR	

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SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene, mixed isomers Ethylbenzene	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Xylene, mixed isomers	-	8.1 to 25.9	Low
Zinc Phosphate	-	60960	High
Hydrocarbons, C9, aromatics	-	10 to 2500	High
Zinc Oxide	-	28960	High

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

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 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*

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

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SECTION 13: Disposal considerations

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

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT. Marine pollutant (Zinc Phosphate, Med. Aliphatic Hydrocarbon Solvent)	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel code D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not applicable.

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SECTION 14: Transport information

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to 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	%	Designation [Usage]
HEAT-FLEX M505 Heat Resisting Matt Finish	≥90	3
methanol	<0.1	69
toluene	≤0.1	48

Labeling : Not applicable.

Other EU regulations

VOC content (2010/75/EU) : 51.1 w/w

576 **g/l**

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

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SECTION 16: Other information

Key literature references and sources for data

Date of printing

: 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]

	n according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Classification	Justification
Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	On basis of test data Calculation method
Full text of abbreviated H : H225	Highly flammable liquid and vapor. Flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS] : Acute Tox. Aquatic Advantic Chaquatic Chapter In Appear In Appea	cute 1 AQUATIC HAZARD (ACUTÉ) - Category 1 hronic 1 AQUATIC HAZARD (LONG-TERM) - Category 1 hronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2 hronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 2 FLAMMABLE LIQUIDS - Category 2 3 FLAMMABLE LIQUIDS - Category 3 2 SKIN CORROSION/IRRITATION - Category 2 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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SECTION 16: Other information

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revision

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Date of previous issue : 21, Jan, 2024

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

information.

Version : 9

Notice to reader

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

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

- The product is classified as hazardous for health
- The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become 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.

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SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, enclosed

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

General description of the process covered

Paint application on industrial line with fully-enclosed spraying

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent	
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	None	None	None	
Film formation - force drying, stoving and other technologies	PROC02	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Application equipment cleaning outside booth	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
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HEAT-FLEX M505 Heat Resisting Matt FinishIndustrial 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.





Disclaimer

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

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

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SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, walk-in booth

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

General description of the process covered

Paint application on industrial line with walk-in spray booth

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

Preparation of material for application Loading of application PROC08b More than 4 hours Enhanced (mechanical) room ventilation Find formation - force drying, stoving and other technologies More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Find formation - force drying, stoving and other technologies More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Find formation - force drying, stoving and other technologies	Contributing activity	Process category	Maximum	Ventilation		
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 Refer to relevant tech standards Film formation - force drying, stoving and other technologies Cleaning PROC05 More than 4 hours Enhanced (mechanical) room ventilation Refer to relevant tech standards Film formation - force drying, stoving and other technologies Cleaning PROC05 More than 4 hours Local exhaust ventilation Refer to relevant tech standards Fernanced (mechanical) room ventilation Refer to relevant tech standards For to relevant		(ies)	duration	Туре	ach (air changes per hour)	
equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying, stoving and other technologies Cleaning PROC05 More than 4 hours Enhanced (mechanical) room ventilation Refer to relevant tech standards 5 - 10 PROC05 More than 4 hours Local exhaust ventilation Refer to relevant tech standards 5 - 10 Refer to relevant tech standards Film formation - force drying, stoving and other technologies Cleaning PROC05 More than 4 hours Enhanced (mechanical) room ventilation Refer to relevant tech standards Ferror or elevant	•	PROC05	More than 4 hours		5 - 10	
coatings and inks by spraying Film formation - force drying, stoving and other technologies Cleaning PROC05 More than 4 hours Local exhaust ventilation Refer to relevant tech standards Financed (mechanical) room ventilation Refer to relevant tech standards Application equipment cleaning outside booth Waste management PROC05 More than 4 hours Enhanced (mechanical) room ventilation Financed (mechanical) room ventilation Financed (mechanical) room ventilation Financed (mechanical) ro	equipment and handling of	PROC08b	More than 4 hours		5 - 10	
stoving and other technologies Cleaning PROC05 More than 4 hours Local exhaust ventilation Refer to relevant tech standards FROC05 More than 4 hours Enhanced (mechanical) room ventilation FROC08b More than 4 hours Enhanced (mechanical) room ventilation Frocess category (ies) PROC08b Respiratory Respiratory Eye Hands Freparation of material for application Equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying PROC07 Compressed-air breathing apparatus to EN 14594 with an assigned protection Refer to relevant tech standards Freparation of material for attaining activity Frequency Industrial application of coatings and inks by spraying PROC07 Compressed-air breathing apparatus to EN 14594 with an assigned protection according to EN 166. Wear suitable gloves tested to EN374. Wear suitable gloves tested to EN374.		PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth Waste management PROC05 More than 4 hours Enhanced (mechanical) room ventilation 5 - 10 Contributing activity Process category (ies) Preparation of material for application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying More than 4 hours Enhanced (mechanical) room ventilation Enhanced (mechanical) room ventilation Freparatory Eye Hands Use eye protection according to EN 166. Use eye protection wear suitable gloves tested to EN374. Use eye protection according to EN 166. Wear suitable gloves tested to EN374. Use eye protection according to EN 166. Wear suitable gloves tested to EN374.		PROC04	More than 4 hours		5 - 10	
Cleaning outside booth Waste managementPROC08bMore than 4 hoursventilationContributing activityProcess category (ies)RespiratoryEyeHandsPreparation of material for application Loading of application 	Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Contributing activity Process category (ies) Preparation of material for application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying Process category (ies) Respiratory Respiratory Use eye protection according to EN 166. Wear suitable gloves tested to EN374. Use eye protection according to EN 166. Wear suitable gloves tested to EN374.		PROC05	More than 4 hours		5 - 10	
Preparation of material for application PROC05 None Use eye protection according to EN 166. Use eye protection according to EN 166. Use eye protection according to EN 166. Wear suitable gloves tested to EN374. Use eye protection according to EN 166. Wear suitable gloves tested to EN374. Use eye protection according to EN 166. Use eye protection according to EN 166. Use eye protection according to EN 166.	Waste management	PROC08b	More than 4 hours		5 - 10	
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying PROC07 PROC07 Compressed-air breathing apparatus to EN 14594 with an assigned protection according to EN 166. Use eye protection according to EN 166. Wear suitable gloves tested to EN374. Use eye protection according to EN 166. Wear suitable gloves tested to EN374.	Contributing activity		Respiratory	Eye	Hands	
equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying PROC07 Compressed-air breathing apparatus to EN 14594 with an assigned protection according to EN 166. Use eye protection according to EN 166. Wear suitable gloves tested to EN374.		PROC05	None			
coatings and inks by spraying apparatus to EN 14594 according to EN 166. tested to EN374.	equipment and handling of	PROC08b	None			
		PROC07	apparatus to EN 14594 with an assigned protection	according to EN 166.		
Film formation - force drying, stoving and other technologies PROC04 None None None		PROC04	None	None	None	
Cleaning PROC05 None Use eye protection according to EN 166. Wear suitable gloves tested to EN374.	Cleaning	PROC05	None			
Application equipment PROC05 None Use eye protection Wear suitable gloves	Application equipment	PROC05	None	Use eye protection	Wear suitable gloves	

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HEAT-FLEX M505 Heat I	Resisting Matt Finish	industrial spray painting, walk-in booth		
cleaning outside booth			according to EN 166.	tested to EN374.
Waste management	PROC08b		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.







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SUMI Safe Use of Mixtures Information for end-users

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

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See chapter 8 of this Safety Data Sheet for specifications.





Disclaimer

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

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

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SUMI Safe Use of Mixtures Information for end-users

Title : 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 : Indoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	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.			

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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.

HEAT-FLEX M505 Heat Resisting Matt Finish





Disclaimer

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SUMI Safe Use of Mixtures Information for end-users

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

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

General description of the process covered

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

Operational conditions

Place of use : Outdoor use

Risk management measures (RMM)

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

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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	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 brush or roller	PROC10	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 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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