# SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: FIRETEX FX2004 Solvent Based Intumescent
Product code	: FX2004
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier o sheet	f the safety data
Sherwin-Williams UK Limite Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	d - Protective & Marine
The Sherwin-Williams Comp Inver France SAS 2 Rue Jean Revaus - BP 80 Thouars CEDEX France	
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com
1.4 Emergency telephone n	umber
National advisory body/Po	vison Center
Telephone number	: +371 67042473
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards id	entification
2.1 Classification of the sub	ostance or mixture
Product definition	: Mixture
	o Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	
The product is classified as	hazardous according to Regulation (EC) 1272/2008 as amended.

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FIRETEX FX2004 Solvent Based Intumescent FX2004

## **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.

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### 2.2 Label elements

Signal word	: Danger
Hazard statements	<ul> <li>H225 - Highly flammable liquid and vapor.</li> <li>H304 - May be fatal if swallowed and enters airways.</li> <li>H315 - Causes skin irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H351 - Suspected of causing cancer.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 - Do not breathe vapor.</li> </ul>
Response	<ul> <li>P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.</li> </ul>
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Toluene 1,3,5-Triazine-2,4,6-triamine
Supplemental label elements	<ul> <li>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. FOR INDUSTRIAL USE ONLY</li> </ul>
Special packaging requirer Not applicable.	<u>nents</u>
2.3 Other hazards	
	This mixture does not contain any substances that are assessed to be a PPT or a

	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**

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#### 3.2 Mixture

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

FIRETEX FX2004 Solvent Based Intumescent

## FX2004

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - <25	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]
1,3,5-Triazine-2,4,6-triamine	REACH #: 01-2119485947-16 EC: 203-615-4 CAS: 108-78-1 Index: 613-345-00-2	<10	Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373 (urinary tract)	-	[1] [3]
Methyl Ethyl Ketone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]

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

[3] Substance of equivalent concern

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

# SECTION 4: 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 recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

FIRETEX FX2004 Solvent Based Intumescent FX2004

## **SECTION 4: First aid measures**

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	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures		
5.1 Extinguishing media Suitable extinguishing media	: Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray or mist.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2 Special hazards arising f	rom the substance or mixture	
Hazards from the substance or mixture	<ul> <li>Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.</li> </ul>	
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	<ul> <li>Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.</li> </ul>	

FX2004

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
		Keep unnecessary and unprotected personnel from entering.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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.
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## 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	<ul> <li>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.</li> <li>Operators should wear antistatic footwear and clothing and floors should be of the conducting type.</li> <li>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.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> <li>Comply with the health and safety at work laws.</li> <li>Do not allow to enter drains or watercourses.</li> <li>Information on fire and explosion protection</li> <li>Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.</li> <li>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 spraving process and until the particulate and solvent vapors</li> </ul>
	during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

FIRETEX FX2004 Solvent Based Intumescent

### FX2004

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

7.2 Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. <b>Notes on joint storage</b> Keep away from: oxidizing agents, strong alkalis, strong acids. <b>Additional information on storage conditions</b> 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.

Recommendations	. NOL 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	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 50 mg/m <sup>3</sup> 8 hours. STEL: 150 mg/m <sup>3</sup> 15 minutes. TWA: 14 ppm 8 hours. STEL: 40 ppm 15 minutes.
Methyl Ethyl Ketone	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). STEL: 300 ppm 15 minutes. TWA: 67 ppm 8 hours. STEL: 900 mg/m <sup>3</sup> 15 minutes. TWA: 200 mg/m <sup>3</sup> 8 hours.
Xylene, mixed isomers	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). [Xylenes] Absorbed through skin. TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m <sup>3</sup> 15 minutes.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
	Minister Cabinet Regulations No.325 - BEI (Latvia, 7/2018) BEI: 0.05 mg/l, toluene [in blood]. BEI: 1.6 g/g creatinine, hippuric acid [in urine]. Sampling time: end of the shift.

FIRETEX FX2004 Solvent Based Intumescent

FX2004

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

Recommended monitoring	: Reference should be made to monitoring standards, such as the following:
procedures	European Standard EN 689 (Workplace atmospheres - Guidance for the
	assessment of exposure by inhalation to chemical agents for comparison with limit
	values and measurement strategy) European Standard EN 14042 (Workplace
	atmospheres - Guide for the application and use of procedures for the assessment
	of exposure to chemical and biological agents) European Standard EN 482
	(Workplace atmospheres - General requirements for the performance of procedures
	for the measurement of chemical agents) Reference to national guidance
	documents for methods for the determination of hazardous substances will also be required.
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: 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
Toluene	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population [Human via the environment]	Systemic
	DNEL	Short term Inhalation	226 mg/m³	General population [Human via the environment]	Local
	DNEL	Long term Dermal	226 mg/m <sup>3</sup>	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/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m <sup>3</sup>	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	population [Consumers]	Local
1,3,5-Triazine-2,4,6-triamine	DNEL	Short term Dermal Short term Inhalation	82.3 mg/m <sup>3</sup>		Systemic Systemic
	DNEL DNEL	Long term Dermal Long term Inhalation	11.8 mg/kg 8.3 mg/m³	Workers Workers	Systemic Systemic
	DNEL	Long term Dermal	4.2 mg/kg	General population	Systemic
	DNEL	Long term	1.5 mg/m³	General	Systemic

## FX2004

# SECTION 8: Exposure controls/personal protection

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		Inhalation		population	
	DNEL	Long term Oral	0.42 mg/kg	General	Systemic
		-		population	-
Methyl Ethyl Ketone	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
		U U	kg bw/day		5
	DNEL	Long term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	5		5
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	- ,
				[Consumers]	
	DNEL	Long term	106 mg/m <sup>3</sup>	General	Systemic
		Inhalation	ree mg/m	population	eyetenne
				[Consumers]	
	DNEL	Long term Oral	31 mg/kg	General	Systemic
		Long term Oran	bw/day	population	Oysternie
			5W/day	[Consumers]	
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
		Long term Derma	125 mg/kg	population	Oysternic
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	22 i mg/m	VVOIKEIS	Systemic
	DNEL	Short term	289 mg/m³	Workers	Systemic
		Inhalation	209 mg/m	VVOIKEIS	Systemic
	DNEL	Short term	442 mg/m³	Workers	Local
	DINEL	Inhalation	442 mg/m	VVOIKEIS	LUCAI
	DNEL		65.2 ma/m <sup>3</sup>	General	Svotomio
	DINEL	Long term	65.3 mg/m <sup>3</sup>		Systemic
		Inhalation	$260 \text{ mg/m}^3$	population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation	171	population	Curatanaia
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation	4 5	population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
				population	

#### **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	-
1,3,5-Triazine-2,4,6-triamine	Fresh water	0.5 mg/l	-
	Marine water	0.05 mg/l	-
	Sewage Treatment Plant	200 mg/l	-
	Fresh water sediment	2.524 mg/kg	-
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	-

### 8.2 Exposure controls

FIRETEX FX2004 Solvent Based Intumescent

# SECTION 8: Exposure controls/personal protection

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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.
	<ul> <li>Users are advised to consider national Occupational Exposure Limits or other equivalent values.</li> </ul>
Individual protection meas	sures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	: Gloves for short term exposure/splash protection (less than 10 min.): Nitrile>0.12
	mm Gloves for splash protection need to be changed immediately when in contact with chemicals.
	Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm
	For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves
	Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG)
	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product.
	The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
	Gloves should be replaced regularly and if there is any sign of damage to the glove material.
	Always ensure that gloves are free from defects and that they are stored and used correctly.
	The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

FIRETEX FX2004 Solvent Based Intumescent

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

Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	<ul> <li>Application methods: Brush or roller. Approved/certified respirator with organic vapor 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.</li> </ul>
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

1.5	
<u>Appearance</u>	
Physical state	: Liquid.
Color	: White.
Odor	: Solvent.
Odor threshold	: Not Available (Not Tested).
pН	<ul> <li>Not relevant/applicable due to nature of the product. insoluble in water.</li> </ul>
Melting point/freezing point	: Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	: 78°C
Flash point	: Closed cup: 5°C [Pensky-Martens Closed Cup]
Evaporation rate	: 5.6 (butyl acetate = 1)
Flammability	: Flammable liquid.
Lower and upper explosion limit	: LEL: 1% (Toluene) UEL: 10% (Methyl Ethyl Ketone)
Vapor pressure	: 12.1 kPa (90.6 mm Hg)
Relative vapor 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* 

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#### water

#### Auto-ignition temperature

Ingredient name		°C	°F	Method	
Methyl Ethyl Ketone Toluene		475 480	887 896		
Decomposition temperature Viscosity	<ul> <li>Not relevant/applicable due to nature of the product.</li> <li>Kinematic (40°C): &lt;20.5 mm²/s</li> </ul>				
Explosive properties	: Under r	normal condition	s of storage ar	nd use, hazardous reactions will not occ	ur.

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II mescent
FX2004	
<b>SECTION 9: Physical an</b>	d chemical properties
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	: 7.892 kJ/g
SECTION 10: Stability a	nd 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	<ul> <li>Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.</li> </ul>
Refer to Section 7: HANDLIN	G 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.

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
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
1,3,5-Triazine-2,4,6-triamine	LD50 Oral	Rat	3161 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Date of issue/Date of revision : 03	D3, Apr, 2024Date of previou	us issue : 02, Apr	; 2024 <b>Versi</b> e	on :13.05 11/36
			SHW-A	4-EU-CLP44-LV

ECTION 11: Toxicologi	cal information						
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat		6700	ppm 4	hours	
	LD50 Oral	Rat		4300	mg/kg -		
Acute toxicity estimates					L.		
Route				ATE value			
Dermal Inhalation (gases)				6.25 mg/ł 9.9 ppm			
rritation/Corrosion							
Product/ingredient name	Result	Spee	cies	Score	Exposure	Observation	
Toluene	Eyes - Mild irritant	Rabbit		-	0.5 minutes	-	
	Eyes - Mild irritant	Rabbit		-	100 mg 870 ug	_	
	Eyes - Severe irritant	Rabbit		-	24 hours 2	-	
		<u> </u>			mg		
	Skin - Mild irritant	Pig		-	24 hours 250 uL	-	
	Skin - Mild irritant	Rabbit		-	435 mg	-	
	Skin - Moderate irritant	Rabbit		-	24 hours 20	-	
	Chin Madarata invitant	Debbit			mg		
1,3,5-Triazine-2,4,6-triamine	Skin - Moderate irritant Eyes - Mild irritant	Rabbit Rabbit		-	500 mg 24 hours 500	-	
	Lyco wild intant	T CODDIC			mg		
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit		-	24 hours 14	-	
	Skin - Moderate irritant	Rabbit		-	mg 24 hours 500	-	
		Tabbit		-	mg	-	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit		-	87 mg	-	
	Eyes - Severe irritant	Rabbit		-	24 hours 5	-	
	Skin - Mild irritant	Rat		-	mg 8 hours 60 uL		
	Skin - Moderate irritant	Rabbit		-	100 %	-	
	Skin - Moderate irritant	Rabbit		-	24 hours 500	-	
					mg		
Conclusion/Summary	: Not available.						
Sensitization							
No data available							
Conclusion/Summary	: Not available.						
<u>Mutagenicity</u>							
No data available							
<u>Carcinogenicity</u> No data available							
Reproductive toxicity							
No data available							
<u>Teratogenicity</u>							
No data available							

Specific target organ toxicity (single exposure)

## FX2004

## **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 3	-	Narcotic effects
Methyl Ethyl Ketone	Category 3	-	Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 2	-	-
1,3,5-Triazine-2,4,6-triamine	Category 2	-	urinary tract
Xylene, mixed isomers	Category 2	-	-

## Aspiration hazard

Product/ingredient name	Result
Toluene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	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
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
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
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours

### 12.2 Persistence and degradability

-	-	1				
Product/ingredient name	Test	Result	Dose		Inoculum	
No data available						
Date of issue/Date of revision :	03, Apr, 2024	Date of previous issue	: 02, Apr, 2024	Versio	<b>n</b> :13.05	13/36
				SHW-A4	-EU-CLP44-LV	

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

FIRETEX FX2004 Solvent Based Intumescent

## FX2004

## **SECTION 12: Ecological information**

Conclusion/Summary : Not available.				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Toluene	-	-	Readily	
Methyl Ethyl Ketone	-	-	Readily	
Xylene, mixed isomers	-	-	Readily	

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	-	90	Low
1,3,5-Triazine-2,4,6-triamine	-	<3.8	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### SECTION 13: Disposal considerations 13.1 Waste treatment methods Product Methods of disposal : The generation of waste should be avoided or 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 : waste paint and varnish containing organic solvents or other hazardous substances 08 01 11\* catalogue (EWC) **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 minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## **SECTION 13: Disposal considerations**

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)	<ul> <li>packaging containing residues of or contaminated by hazardous substances 15 01 10*</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	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	11	11	11
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

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.

: Not applicable.

## **SECTION 15: Regulatory information**

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

## Annex XIV - List of substances subject to authorization

## Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
1,3,5-Triazine-2,4,6-triamine	Substance of equivalent concern for human health	Candidate	D(2022) 9120-DC	1/17/2023
1,3,5-Triazine-2,4,6-triamine	Substance of equivalent concern for environment	Candidate	D(2022) 9120-DC	1/17/2023

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

Product/ingredient name	)		%	Designation [Usage]
FIRETEX FX2004 Solven toluene	Based Intumesco	ent	≥90 ≥10 - <25	3 48
Labeling <u>Other EU regulations</u>	: Not applicat	ble.		
VOC content (2010/75/EU	) : 26.9 w/w 354 g/l			
Explosive precursors <u>Seveso Directive</u>	: Not applicat	ble.		
major accident hazards.	e calculation for d	letermining whether a site i	is within the scope of	the Seveso Directive on
National regulations				
15.2 Chemical Safety Assessment	: No Chemica	ll Safety Assessment has b	een carried out.	
SECTION 16: Other inf	ormation			
Indicates information that	has changed fror	m previously issued versior	۱.	
Abbreviations and acronyms	CLP = Class 1272/2008] DMEL = Der DNEL = Der EUH statem PBT = Persi PNEC = Pre RRN = REA	e Toxicity Estimate sification, Labelling and Pa rived Minimal Effect Level rived No Effect Level nent = CLP-specific Hazard istent, Bioaccumulative and edicted No Effect Concentra CH Registration Number / Persistent and Very Bioac vailable	statement d Toxic ation	Regulation (EC) No.
Key literature references and sources for data	ADR = The Dangerous IATA = Inter IMDG = Inter Conforms to Commission	(EC) No. 1272/2008 [CLP] European Agreement cond Goods by Road Inational Air Transport Asse ernational Maritime Danger Regulation (EC) No. 1907 Regulation (EU) 2020/878 12/18/EU, and relative amo	ociation ous Goods 7/2006 (REACH), Anr 3	ex II, as amended by
Date of issue/Date of revision	: 03, Apr, 2024	Date of previous issue	:02, Apr, 2024	Version : 13.05 16/36

## **SECTION 16: Other information**

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]

Classif	ication Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	<ul> <li>H225 Highly flammable liquid and vapor.</li> <li>H226 Flammable liquid and vapor.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H351 Suspected of causing cancer.</li> <li>H361 Suspected of damaging fertility or the unborn child.</li> <li>H361 Suspected of damaging the unborn child.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>EUH066 Repeated exposure may cause skin dryness or cracking.</li> </ul>
Full text of classifications [CLP/GHS]	<ul> <li>Acute Tox. 4 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2</li> <li>Eye Irrit. 2</li> <li>Flam. Liq. 2</li> <li>Flam. Liq. 3</li> <li>Repr. 2</li> <li>Stot RE 2</li> <li>Stot RE 3</li> <li>ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2</li> <li>Eye Irrit. 2</li> <li>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2</li> <li>Flam. Liq. 3</li> <li>FLAMMABLE LIQUIDS - Category 3</li> <li>TOXIC TO REPRODUCTION - Category 2</li> <li>SKIN CORROSION/IRRITATION - Category 2</li> <li>STOT RE 2</li> <li>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3</li> <li>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3</li> </ul>
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Date of issue/ Date of revision	: 03, Apr, 2024
Date of previous issue	: 02, Apr, 2024
	: If there is no previous validation date please contact your supplier for more information.
Version	: 13.05
Nation to reador	

## 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.

## **SECTION 16: Other information**

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

• The product is classified as hazardous for health

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

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

:

# SUMI Safe Use of Mixtures Information for end-users

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

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

## General description of the process covered

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

# **Operational conditions**

Place of use

Title

: Indoor use

# **Risk management measures (RMM)**

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

FIRETEX FX2004 Solver	t Prof	essional application of	f coatings and inks by spraying-Indoor	
Waste management	PROC08a	None	Use eye protection according to EN 166.	employee training. Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

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.

# SUMI Safe Use of Mixtures Information for end-users

: Professional application of coatings and inks by spraying-Outdoor

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

# General description of the process covered

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

# **Operational conditions**

Title

Place of use : Outdoor use

## **Risk management measures (RMM)**

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

FIRETEX FX2004 Solvent Based Intumescent			Professional application	on of coatings and inks by spraying-Outdoor
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training.

See chapter 8 of this Safety Data Sheet for specifications.



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# SUMI Safe Use of Mixtures Information for end-users

### : 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**

Title

Place of use : Indoor use

## **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by 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.	

FIRETEX FX2004 Sol	FIRETEX FX2004 Solvent Based Intumescent			spray painting, enclosed
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



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

# General description of the process covered

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

# **Operational conditions**

Place of use

: Indoor use

# **Risk management measures (RMM)**

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

FIRETEX FX2004 Solvent Based Intumescent

See chapter 8 of this Safety Data Sheet for specifications.



# Disclaimer

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

# SUMI Safe Use of Mixtures Information for end-users

### : 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**

Title

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	More than 4 hours	_ocal exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	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	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
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.	
Application equipment	PROC05	None	Use eye protection	Wear suitable gloves	

FIRETEX FX2004 Solvent Based Intumescent			Industrial spray µ	painting, walk-in booth
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.



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# SUMI Safe Use of Mixtures Information for end-users

## : 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**

Title

Place of use : Outdoor use

## **Risk management measures (RMM)**

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

See chapter 8 of this Safety Data Sheet for specifications.

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# SUMI Safe Use of Mixtures Information for end-users

### : 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**

Title

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 tentilation		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	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear 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.	

See chapter 8 of this Safety Data Sheet for specifications.

: No previous validation Version

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FIRETEX FX2004 Solvent Based Intumescent



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# SUMI Safe Use of Mixtures Information for end-users

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

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

## General description of the process covered

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

# **Operational conditions**

Place of use

Title

: Indoor use

# **Risk management measures (RMM)**

Contributing activity	Process category (ies)	Maximum	Ventilation		
		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.	

FIRETEX FX2004 Solvent Based Intumescent			Industrial application of coatings and inks by other than spraying-Enclosed		
Application equipment cleaning outside booth	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

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# SUMI Safe Use of Mixtures Information for end-users

## : Professional painting, indoor brush/roller

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

# General description of the process covered

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

## **Operational conditions**

Title

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

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