SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: FIRETEX FX4002 Solvent Based Intumescent
Product code	: FX4002
1.2 Relevant identified us	es 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 sheet	of the safety data
Sherwin-Williams UK Limit Coatings Division EMEAI	ed - Protective & Marine
Tower Works	
Kestor Street	
Bolton BL2 2AL	
United Kingdom	
+44 (0) 1204 521771	
The Sherwin-Williams Com	ipany
Inver France SAS	
2 Rue Jean Revaus - BP 8	0088 - 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/P	<u>oison Centre</u>
Telephone number	: 111 (general public) /0344 892 111 (Medical professional (NHS) only)
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
SECTION 2: Hazards i	dentification
2.1 Classification of the su	ibstance or mixture
Product definition	: Mixture
	to 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	
•	hazardous according to Regulation (EC) 1272/2008 as amended.

FX4002

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	 Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour.
Response	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Toluene 1,3,5-Triazine-2,4,6-triamine
Supplemental label elements	 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. FOR INDUSTRIAL USE ONLY
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 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

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

FIRETEX FX4002 Solvent Based Intumescent

FX4002

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	≤5	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	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Zinc Borate	EC: 235-804-2 CAS: 12767-90-7	<1	Repr. 2, H361 (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	M [Acute] = 1	[1]

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 08, Nov, 2023Version: 19.013/36

FX4002

SECTION 4: First aid measures

Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. 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 vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

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, CO₂, powders, water spray or mist.		
Unsuitable extinguishing media	Do not use water jet.		
5.2 Special hazards arising f	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 drains or watercourses.	e to	
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.		

FX4002

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 vapour or mise Refer to protective measures listed in sections 7 and 8.		
		Keep unnecessary and unprotected personnel from entering.		
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.		
6.3 Methods and material for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.		
<i>6.4 Reference to other sections</i>	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.		
		-		

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling	 Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour on a paper or and states the spray booth, ventilation has a fallen below the exposure limits.

FIRETEX FX4002 Solvent Based Intumescent

FX4002

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: oxidising agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
	Contaminated absorbent material may pose the same hazard as the spilt product. Store in closed original container at temperatures between 5°C and 25°C.
7.3 Specific end use(s) Recommendations	: Not available.

Recommendations	i not available.
Industrial sector specific	: Not available.
solutions	

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 384 mg/m ³ 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
Methyl Ethyl Ketone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 899 mg/m ³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 600 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours.
Xylene, mixed isomers	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.

Biological exposure indices

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

FIRETEX FX4002 Solvent Based Intumescent

FX4002

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.
	Description respirations of all second and a should be associated with the second sec second second sec

: 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 ³	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/m³	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 ³	Workers	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m³	Workers	Local
	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population [Consumers]	Local
1,3,5-Triazine-2,4,6-triamine	DNEL DNEL	Short term Dermal Short term Inhalation	117 mg/kg 82.3 mg/m ³		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
te of issue/Date of revision : 15, Apr	DNEL	Long term	1.5 mg/m³	General	Systemic

FIRETEX FX4002 Solvent Based Intumescer

FX4002

SECTION 8: Exposure controls/personal protection

		Inhalation		population	
	DNEL	Long term Oral	0.42 mg/kg	General	Systemic
				population	-
Methyl Ethyl Ketone	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
			kg bw/day		-
	DNEL	Long term	600 mg/m ³	Workers	Systemic
		Inhalation	_		-
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	-
			-	[Consumers]	
	DNEL	Long term	106 mg/m ³	General	Systemic
		Inhalation	_	population	-
				[Consumers]	
	DNEL	Long term Oral	31 mg/kg	General	Systemic
			bw/day	population	-
			-	[Consumers]	
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
		-		population	-
	DNEL	Long term	221 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	289 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	442 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation		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

SHW-A4-EU-CLP44-GB

FIRETEX FX4002 Solvent Based Intumescent

FX4002

SECTION 8: Exposure controls/personal protection

SECTION 6. Exposure	controls/personal protection				
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.				
	 Users are advised to consider national Occupational Exposure Limits or other equivalent values. 				
Individual protection mea	sures				
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
Eye/face protection <u>Skin protection</u>	: Use safety eyewear designed to protect against splash of liquids.				
Hand protection	: Wear suitable gloves tested to EN374.				
Gloves	 Gloves for term exposure/splash protection (less than 10 min):Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with chemicals. Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as 				
	under gloves Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. The recommendation for the type or types of glove to usewhen handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG).				
	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. 				
	Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.				
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.				
Body protection	: Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.				
	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.				
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 				
Date of issue/Date of revision	: 15, Apr, 2024 Date of previous issue : 08, Nov, 2023 Version : 19.01 9/36				

SECTION 8: Exposure controls/personal protection

Respiratory protection	 Application methods: Brush or roller. Approved/certified respirator with organic vapour cartridge. Filter type: A2 P2 (EN14387). Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Colour	White.
Odour	Paint
Odour threshold	Not Available (Not Tested).
рH	Not relevant/applicable due to nature of the product. insoluble in water.
Melting point/freezing point	Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	78°C
Flash point	Closed cup: 2°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)
Vapour pressure	12.1 kPa (90.6 mm Hg)
Relative vapour density	2.48 [Air = 1]
Relative density	1.28
Solubility(ies)	
Media	Result
cold water	Not soluble

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

1

Auto-ignition temperature

Ingredient name		°C	°F	Method		
Methyl Ethyl Ketone Toluene		475 480	887 896			
Decomposition temperature	: Not rel	evant/applicable due	e to nature of t	the product.		
Viscosity	: Kinema	atic (40°C): <20.5 m	m²/s			
Explosive properties	: Under	normal conditions o	f storage and	use, hazardou	s reactions will not	occur.
Oxidising properties	: Under	normal conditions o	f storage and	use, hazardou	s reactions will not	occur.
Particle characteristics						
Median particle size	: Not rele	evant/applicable due	to nature of t	he product.		
Date of issue/Date of revision : 15,	Apr, 2024	Date of previou	is issue : 08, 1	Vov, 2023	Version : 19.01	10/36

SECTION 9: Physical and chemical properties

9.2 Other information

Heat of combustion

: 8.853 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: oxidising agents, strong alkalis, strong acids.				
10.6 Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.				

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

SECTION 11: Toxicological information

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapour	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	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-

Acute toxicity estimates

Date of issue/Date of revision : 15, Apr, 2024

SECTION 11: Toxicological information

Route	ATE value
Dermal	48260.05 mg/kg
Inhalation (gases)	293947.59 ppm

Irritation/Corrosion

becies Score	Exposure	Observation
pit -	0.5 minutes	-
	100 mg	
pit –	870 ug	-
pit –	24 hours 2	-
	mg	
-	24 hours 250	-
	uL	
pit –	435 mg	-
pit –	24 hours 20	-
	mg	
pit -	500 mg	-
pit -	24 hours 500	-
	mg	
pit –	24 hours 14	-
	mg	
pit –	24 hours 500	-
	mg	
pit –	87 mg	-
pit –	24 hours 5	-
	mg	
-	8 hours 60 uL	-
pit –	100 %	-
pit –	24 hours 500	-
	mg	
		oit - 24 hours 500

<u>Sensitisation</u>

No data available

Conclusion/Summary : Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

FX4002

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Toluene 1,3,5-Triazine-2,4,6-triamine	Category 2 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 - <i>Gammarus</i> <i>pseudolimnaeus</i> - 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 -	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>	48 hours	
	Acute LC50 13400 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours	

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.	1				
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Toluene Methyl Ethyl Ketone Xylene, mixed isomers	- -		- - -		Readily Readily Readily	

12.3 Bioaccumulative potential

Date of issue/Date of revision	: 15, Apr, 2024	Date of previous issue	:08, Nov, 2023	Version : 19.01	13/36
				SHW-A4-EU-CLP44-GB	

SECTION 12: Ecological information

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
Zinc Borate	-	60960	High

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations 13.1 Waste treatment methods Product Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Hazardous waste : Yes. European waste : waste paint and varnish containing organic solvents or other hazardous substances catalogue (EWC) 08 01 11* : Do not allow to enter drains or watercourses. **Disposal considerations** Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority. Packaging Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. **Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. packaging containing residues of or contaminated by hazardous substances 15 01 European waste catalogue (EWC) 10*

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX4002 Solvent Based Intumescent

FX4002

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	II	11	II
14.5 Environmental hazards	No.	No.	No.
Additional information	<u>Special provisions</u> 640 (C) <u>Tunnel code</u> D/E	Emergency schedules F-E, S-E	-

14.6 Special precautions for user: **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 : Not applicable.

bulk according to IMO instruments

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

SECTION 15: Regulatory information	ation			
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

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

Product/ingredient name FIRETEX FX4002 Solvent Based Intumescent toluene			Designation [Usage]
			3 <25 48
Labelling Other EU regulations	: Not a	i	i
VOC content (2010/75/EU)	: 30 383		
Explosive precursors Seveso Directive	: Not a		
	calculatio	ng whether a site is within the sco	pe of the Seveso Directive or
National regulations			
5.2 Chemical safety ssessment	: No Cł	Assessment has been carried out.	

Indicates information that	has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative
	N/A = Not available
Key literature references and sources for data	 Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of
and sources for data	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]

FX4002

FX4002		
SECTION 16: Other info	rmation	
Classi	fication	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	Calc Calc Calc Calc Calc Calc	basis of test data culation method culation method culation method culation method culation method culation method
Full text of abbreviated H statements	H226Flammable IH304May be fatalH312Harmful in coH315Causes skinH319Causes serieH332Harmful if inH335May cause rH336May cause rH351Suspected oH361Suspected oH373May cause cexposure.H400H411Toxic to aquH412Harmful to a	bus eye irritation. haled. espiratory irritation. rowsiness or dizziness. f causing cancer. f damaging fertility or the unborn child. f damaging the unborn child. amage to organs through prolonged or repeated
Full text of classifications [CLP/GHS]	Aquatic Acute 1SHO1Aquatic Chronic 2LONCateCateAquatic Chronic 3LONCateAquatic Chronic 3LONCateAsp. Tox. 1ASFCarc. 2CAFEye Irrit. 2SEFFlam. Liq. 2FLAFlam. Liq. 3FLARepr. 2REFSkin Irrit. 2SKIISTOT RE 2SPEEXFSTOT SE 3	JTE TOXICITY - Category 4 ORT-TERM (ACUTE) AQUATIC HAZARD - Category IG-TERM (CHRONIC) AQUATIC HAZARD - egory 2 IG-TERM (CHRONIC) AQUATIC HAZARD - egory 3 PIRATION HAZARD - Category 1 RCINOGENICITY - Category 2 RIOUS EYE DAMAGE/EYE IRRITATION - Category 2 MMABLE LIQUIDS - Category 2 MMABLE LIQUIDS - Category 3 PRODUCTIVE TOXICITY - Category 2 N CORROSION/IRRITATION - Category 2 CIFIC TARGET ORGAN TOXICITY - REPEATED POSURE - Category 2 CIFIC TARGET ORGAN TOXICITY - SINGLE POSURE - Category 3
Date of printing	: 15, Apr, 2024.	OSURE - Calegory 5
Date of issue/ Date of revision	: 15, Apr, 2024	
Date of previous issue	: 08, Nov, 2023	
	: If there is no previous validation information.	n date please contact your supplier for more
Version	: 19.01	
Notice to reader		

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX4002 Solvent Based Intumescent FX4002

SECTION 16: Other information

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

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

• The product is classified as hazardous for health

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

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

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

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

General description of the process covered

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

Operational conditions

Place of use

Title

: Indoor use

Risk management measures (RMM)

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

FIRETEX FX4002 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.

See chapter 8 of this Safety Data Sheet for specifications.



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

: 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	Ventila	ation
	(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.
	i			
Film formation - force drying, stoving and other technologies	PROC04	None	None	None

FIRETEX FX4002 Solver	nt Based Intumescen	nt -	Prof	essional application	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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Title : Industrial application of coatings and inks by other than spraying-Local exhaust ventilation This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

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

Operational conditions

Place of use

: Indoor use

Risk management measures (RMM)

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

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FIRETEX FX4002 Solvent Based Intumescent

See chapter 8 of this Safety Data Sheet for specifications.



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

See chapter 8 of this Safety Data Sheet for specifications.

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Disclaimer

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:

: 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	ocal exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room rentilation	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 rentilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room rentilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Еуе	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
	PROC04	None	None	None	
Film formation - force drying, stoving and other technologies Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

FIRETEX FX4002 Solvent Based Intumescent		Industrial spray µ	oainting, 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.



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.

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

FIRETEX FX4002 Solvent Based Intumescent		t Prof	Professional application of 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.



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: 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	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 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.
	PROC05	None	Use eye protection	Wear suitable gloves

FIRETEX FX4002 Solvent Based Intumescent			Industrial	Industrial spray painting, enclosed		
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.		

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: 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 (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	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.

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: No previous validation Version

FIRETEX FX4002 Solvent Based Intumescent



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: 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 (ies)	Maximum duration	Ventilation	
			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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