SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: FIRETEX FX2005 SOLVENT BASED INTUMESCENT
Product code	: FX2005
	• • • • • • • • •
	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 Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	ed - Protective & Marine
The Sherwin-Williams Cor Inver France SAS 2 Rue Jean Revaus - BP 8 Thouars CEDEX France	
e-mail address of person responsible for this SDS	
1.4 Emergency telephone	number
National advisory body/F	<u>Poison Center</u>
Telephone number	: +36 80 20 11 99
<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 se	ıbstance or mixture
Product definition	: Mixture
Classification according	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	
Aquatic Chronic 3, H412	
Date of issue/Date of revision	: 15, Apr, 2024 Date of previous issue : 14, Mar, 2024 Version : 14.03

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX2005 SOLVENT BASED INTUMESCENT FX2005

SECTION 2: Hazards identification

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

ted exposure. oves, protective cloth p away from heat, ho No smoking. Do not or doctor. Do NOT inc
oves, protective cloth p away from heat, ho No smoking. Do not
oves, protective cloth p away from heat, ho No smoking. Do not
p away from heat, ho No smoking. Do not
p away from heat, ho No smoking. Do not
or doctor. Do NOT inc
hen sprayed. Do not
he

	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 FX2005 SOLVENT BASED INTUMESCENT

FX2005

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	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]
Orthoboric Acid, Zinc Salt	EC: 235-804-2 CAS: 12767-90-7	<3	Repr. 2, H361 (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 2, H411 See Section 16 for the full text of the H	M [Acute] = 1	[1]
			statements declared above.		

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

<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: 14, Mar, 2024Version: 14.033/36

SECTION 4: First aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

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 ₂ , powders, water spray or mist.		
Unsuitable extinguishing media	: Do not use water jet.		
5.2 Special hazards arising from the substance or mixture			
Hazards from the substance or mixture	 Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. 		
Hazardous combustion products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.		
Special protective equipment for fire-fighters	: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.		

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

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

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

FX2005

SECTION 7: Handling and storage

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

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.
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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	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitizer. Inhalation sensitizer. TWA: 192 mg/m ³ 8 hours. PEAK: 384 mg/m ³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
Methyl Ethyl Ketone	 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitizer. Inhalation sensitizer. TWA: 600 mg/m³ 8 hours. PEAK: 900 mg/m³ 15 minutes. PEAK: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.
Xylene, mixed isomers	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). [xylene, mixture of isomers] Absorbed through skin. TWA: 221 mg/m ³ 8 hours. PEAK: 442 mg/m ³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
toluene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the shift. BEI: 1 μmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of the shift.
butanone	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 28 μmol/l, methyl-ethyl-ketone [in urine]. Sampling time: at
Date of issue/Date of revision : 15, Apr, 2024	Date of previous issue: 14, Mar, 2024Version: 14.036/36
	SHW-A4-EU-CLP44-HU

SECTION 8: Exposure controls/personal protection

	the end of the shift. BEI: 2 mg/l, methyl-ethyl-ketone [in urine]. Sampling time: at the end of the shift.
xylene	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) [xylene] BEI: 1500 mg/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift. BEI: 860 μmol/mmol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the shift.
procedures Euro	erence should be made to monitoring standards, such as the following: opean Standard EN 689 (Workplace atmospheres - Guidance for the essment of exposure by inhalation to chemical agents for comparison with limit.

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

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
oluene	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
				[Human via the	
	DNEL	Short term	226 mg/m ³	environment] General	Local
	DINEL	Inhalation	220 mg/m	population	LUCAI
				[Human via the	
				environment]	
	DNEL	Long term Dermal	226 mg/m ³	General	Systemic
				population	-
				[Human via the	
				environment]	
	DNEL	Long term Inhalation	226 mg/kg	General	Systemic
		malation	bw/day	population [Human via the	
				environment]	
	DNEL	Long term	56.5 mg/m ³	General	Systemic
		Inhalation	gene mg, m	population	- ,
				[Human via the	
				environment]	
	DNEL	Long term Oral	8.13 mg/	General	Systemic
			kg bw/day	population	
				[Human via the environment]	
	DNEL	Long term	192 mg/m ³	Workers	Systemic
	DINEL	Inhalation	152 mg/m	Wonters	Cysternic
	DNEL	Long term	192 mg/m³	Workers	Local
		Inhalation	_		
	DNEL	Short term	384 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	384 mg/m³	Workers	Local
	DNEL	Inhalation Long term Dermal	384 mg/kg	Workers	Systemic
			bw/day	VV UIKEIS	Gysternic
	DNEL	Long term	56.5 mg/m ³	General	Local
		Inhalation	Jan	population	

FX2005

SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure controls	p0.00.				
				[Consumers]	
1,3,5-Triazine-2,4,6-triamine	DNEL	Short term Dermal	117 mg/kg	Workers	Systemic
	DNEL	Short term	82.3 mg/m ³	Workers	Systemic
		Inhalation	Ū		5
	DNEL	Long term Dermal	11.8 mg/kg	Workers	Systemic
	DNEL	Long term	8.3 mg/m ³	Workers	Systemic
		Inhalation	Ū		•
	DNEL	Long term Dermal	4.2 mg/kg	General	Systemic
		Ū	00	population	•
	DNEL	Long term	1.5 mg/m³	General	Systemic
		Inhalation	-	population	-
	DNEL	Long term Oral	0.42 mg/kg	General	Systemic
		Ū		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/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	474	population	
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation	4 5	population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
				population	

PNECs

Compartment Detail	Value	Method Detail
Fresh water sediment	0.68 mg/l	Assessment Factors
Marine water sediment	0.68 mg/l	Assessment Factors
Sewage Treatment	13.61 mg/l	Assessment Factors
Plant	Ū,	
Soil	2.89 mg/kg	Assessment Factors
Fresh water sediment	16.39 mg/kg dwt	-
Marine water sediment		-
Fresh water	0.5 mg/l	-
Marine water	0.05 mg/l	-
Sewage Treatment	200 mg/l	-
Plant	Ŭ	
Fresh water sediment	2.524 mg/kg	-
Fresh water		-
Marine water	55.8 mg/l	-
Sewage Treatment	709 mg/l	-
Date of previous issue	: 14, Mar, 2024	Version : 14.03 8
	Fresh water sediment Marine water sediment Sewage Treatment Plant Soil Fresh water sediment Marine water sediment Fresh water Marine water Sewage Treatment Plant Fresh water sediment Fresh water Marine water Sewage Treatment	Fresh water sediment0.68 mg/lMarine water sediment0.68 mg/lMarine water sediment0.68 mg/lSewage Treatment13.61 mg/lPlant2.89 mg/kgFresh water sediment16.39 mg/kg dwtMarine water sediment16.39 mg/kg dwtFresh water0.5 mg/lMarine water0.05 mg/lSewage Treatment200 mg/lPlant2.524 mg/kgFresh water55.8 mg/lMarine water55.8 mg/lSewage Treatment709 mg/l

FX2005

SECTION 8: Exposure controls/personal protection

Plant		
Sediment	284.7 mg/kg dwt	-
Soil	22.5 mg/kg	-
Secondary Poisoning	1000 mg/kg	-

8.2 Exposure controls	
Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
	: Users are advised to consider national Occupational Exposure Limits or other equivalent values.
Individual protection meas	ures
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.

SECTION 8: Exposure controls/personal protection

	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Application methods: Brush or roller. Approved/certified respirator with organic 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.
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

cold water	Not soluble	
Media	Result	
Solubility(ies)	:	
Relative density	: 1.31	
Relative vapor density	: 2.48 [Air = 1]	
Vapor pressure	: 12.1 kPa (90.6 mm Hg)	
Lower and upper explosion limit	: LEL: 1% (Toluene) UEL: 10% (Methyl Ethyl Ketone)	
Flammability	Flammable liquid.	
Evaporation rate	: 5.6 (butyl acetate = 1)	
Flash point	Closed cup: 2°C [Pensky-Martens Closed Cup]	
boiling range		
Initial boiling point and	: 78°C	
Melting point/freezing point	Not relevant/applicable due to nature of the product.	
рН	 Not relevant/applicable due to nature of the product. insoluble in water. 	
Odor threshold	Not Available (Not Tested).	
Odor	Solvent.	
Color	White.	
Physical state	: Liquid.	
<u>Appearance</u>		

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

1

water

Auto-ignition temperature

FX2005						
SECTION 9: Physical and	d d	chemical	propertie	s		
Ingredient name			°C	°F	Method	
Methyl Ethyl Ketone Toluene			475 480	887 896		
Decomposition temperature		: Not rel	evant/applic	able due to natur	e of the product.	
Viscosity		: Kinema	atic (40°C):	<20.5 mm²/s		
Explosive properties		: Under	normal cond	ditions of storage	and use, hazardou	s reactions will not occur.
Oxidizing properties		: Under	normal cond	ditions of storage	and use, hazardou	s reactions will not occur.
Particle characteristics						
Median particle size		: Not rele	evant/applic	able due to natur	e of the product.	
9.2 Other information						
Heat of combustion		: 7.851 l	kJ/g			
SECTION 10: Stability an	d	reactivity	/			
10.1 Reactivity	:	No specific	c test data re	elated to reactivity	available for this p	product or its ingredients.
10.2 Chemical stability	:	Stable und	ler recomme	ended storage an	d handling conditio	ns (see Section 7).
10.3 Possibility of hazardous reactions	:	Under norr	mal conditio	ns of storage and	use, hazardous re	actions will not occur.
10.4 Conditions to avoid	:	When expe products.	osed to high	temperatures ma	ay produce hazardo	ous decomposition
10.5 Incompatible materials	:			llowing materials g alkalis, strong a		exothermic reactions:
10.6 Hazardous decomposition products	:			ts may include th , oxides of nitrog		ls: carbon monoxide,

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

SECTION 11: Toxicological information

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

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

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

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

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

SECTION 11: Toxicological information

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	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-

Acute toxicity estimates

Route ATE value	
	49516.67 mg/kg 301601.51 ppm

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				uL	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
1,3,5-Triazine-2,4,6-triamine	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary	: Not available.	1		1	

Conclusion/Summary

Sensitization

No data available

Conclusion/Summary : Not available.

Mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

SECTION 11: Toxicological information

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Toluene	Category 3	-	Narcotic effects
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 -	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 - Pimephales promelas	96 hours

SECTION 12: Ecological information

12.2 Persistence and degradability

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

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

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				SHW-A4-EU-CLP44-HU	

FX2005

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

	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	11	11	11
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 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.

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 FX2005 SOLVE toluene	NT B	ASED	INTUMESCENT	≥90 ≥10 - ≤25	3 48
Labeling	:	Not ap	oplicable.	·	
Other EU regulations					
VOC content (2010/75/EU	り:	26.5 347			
Explosive precursors	:	Not ap	oplicable.		
<u>Seveso Directive</u>					
This product may add to th major accident hazards.	e calc	culatio	n for determining whether a site is withir	n the scope of	the Seveso Directive or
National regulations					
15.2 Chemical Safety Assessment	1 :	No Ch	emical Safety Assessment has been ca	rried out.	
SECTION 16: Other info	orma	tion			
Indicates information that	has c	hange	ed from previously issued version.		
Abbreviations and acronyms		CLP = 1272// DMEL DNEL EUH s PBT = PNEC RRN = vPvB	Acute Toxicity Estimate Classification, Labelling and Packaging 2008] = Derived Minimal Effect Level = Derived No Effect Level statement = CLP-specific Hazard statem Persistent, Bioaccumulative and Toxic = Predicted No Effect Concentration = REACH Registration Number = Very Persistent and Very Bioaccumula Not available	nent	Regulation (EC) No.
Kay litaratura rafaranaaa			ation (EC) No. 1272/2008 [CLD]		

Key literature references and sources for data: Regulation (EC) No. 1272/2008 [CLP] ADR = The European Agreement concerning the International Carriage of	
Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended Commission Regulation (EU) 2020/878 Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions	d by

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX2005 SOLVENT BASED INTUMESCENT

FX2005

SECTION 16: Other information

Directive 2009/161/EU, and relative amendments & additions CEPE Guidelines

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

Classi	fication	Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H226 Flamm H304 May b H312 Harmf H315 Cause H319 Cause H332 Harmf H335 May c H336 May c H361 Suspec H361d Suspec H373 May c exposs H400 Very t H411 Toxic H412	r flammable liquid and vapor. nable liquid and vapor. e fatal if swallowed and enters airways. ful in contact with skin. es skin irritation. es serious eye irritation. ful if inhaled. ause respiratory irritation. ause drowsiness or dizziness. ected of causing cancer. ected of damaging fertility or the unborn child. ected of damaging the unborn child. ause damage to organs through prolonged or repeated ure. oxic to aquatic life. to aquatic life with long lasting effects. ful to aquatic life with long lasting effects. ated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 STOT RE 2	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3
Date of printing	: 15, Apr, 2024.	
Date of issue/ Date of revision	: 15, Apr, 2024	
Date of previous issue	: 14, Mar, 2024	
	: If there is no previous va information.	alidation date please contact your supplier for more
Version	: 14.03	
Notice to reader		

SECTION 16: Other information

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

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

• The product is classified as hazardous for health

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

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

SUMI Safe Use of Mixtures Information for end-users

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

FIRETEX FX2005 SO	LVENT BASED IN	TUMESCENT	Industrial	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

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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

: 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	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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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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Disclaimer

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FIRETEX FX2005 SOLVENT BASED INTUMESCENT Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

SUMI	
Safe Use of Mixtures	
Information for end-users	

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

General description of the process covered

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

Operational conditions

Place of use

: Indoor use

Risk management measures (RMM)

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

FIRETEX FX2005 SOLVENT BASED INTUMESCENT

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

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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	_ocal exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	_ocal exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05		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	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.	
				-	

FIRETEX FX2005 SOLVENT BASED INTUMESCENT			Industrial spray p	oainting, walk-in booth
cleaning outside booth			according to EN 166.	tested to EN374.
Waste management	PROC08b		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



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

: 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	Ventilation		
		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,	PROC04	None	None	None	
stoving and other technologies			1	1	

FIRETEX FX2005 SOLVENT BASED INTUMESCENT			Profe	essional 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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FIRETEX FX2005 SOLVENT BASED INTUMESCENT Industrial application of coatings and inks by other than spraying-Enclosed

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	More than 4 hours Enhanced (mechanical) room ventilation		
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,	PROC02	None	None	None	
stoving and other technologies					

FIRETEX FX2005 SOLVENT BASED INTUMESCENT			Industrial ap	pplication of coatings and inks by other than spraying-Enclosed		
Application equipment cleaning outside booth	PROC05	None		5 1	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None			Wear suitable gloves tested to EN374.	

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SUMI Safe Use of Mixtures Information for end-users

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

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

General description of the process covered

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

Operational conditions

Place of use : Outdoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	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	

FIRETEX FX2005 SOLVENT BASED INTUMESCENT		Professional application	n 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, 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 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	e than 4 hours Enhanced (mechanical) room ventilation		
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.

Date of issue/Date of revision : ***

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FIRETEX FX2005 SOLVENT BASED INTUMESCENT



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