## SAFETY DATA SHEET

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

1.1 Product identifier

Product name : FIRETEX FX2007 SOLVENT BASED INTUMESCENT

**Product code** : FX2007

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

**Material uses** : Paint or paint related material.

: Industrial use only.

## 1.3 Details of the supplier of the safety data sheet

Sherwin-Williams UK Limited - Protective & Marine

Coatings Division EMEAI

Tower Works
Kestor Street
Bolton
BL2 2AL

United Kingdom +44 (0) 1204 521771

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

France

e-mail address of person responsible for this SDS

: hse.pm.emea@sherwin.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Center

**Telephone number** : +385 1 2348 342

<u>Supplier</u>

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

Hours of operation : Emergency contact available 24 hours a day

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

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

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version : 7.01 1/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **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 vapor.

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 vapor.

**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 requirements**

Not applicable.

#### 2.3 Other hazards

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

vPvB.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

Other hazards which do not result in classification

: None known.

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

3.2 Mixture :

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version : 7.01 2/37

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
FIRETEX FX2007 SOLVENT BASED INTUMESCENT
FX2007

## **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 - ≤25	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	<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.

#### Type

- [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.

InhalationRemove to fresh air. Keep person warm and at rest. If not breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

trained personner.

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.013/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **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, fatique, 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 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.

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version : 7.01 4/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **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.

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.

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version: 7.01 5/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

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

Contaminated absorbent material may pose the same hazard as the spilled product.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

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

## SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Toluene	Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). Absorbed through skin.  STELV: 384 mg/m³ 15 minutes.  STELV: 100 ppm 15 minutes.  ELV: 192 mg/m³ 8 hours.  ELV: 50 ppm 8 hours.
Methyl Ethyl Ketone	Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021).  STELV: 900 mg/m³ 15 minutes.  STELV: 300 ppm 15 minutes.  ELV: 600 mg/m³ 8 hours.  ELV: 200 ppm 8 hours.
Xylene, mixed isomers	Ministry of Economy, Labour and Entrepreneurship ELV/STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin.  STELV: 442 mg/m³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m³ 8 hours. ELV: 50 ppm 8 hours.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
toluene	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values and biological limit values (Croatia, 10/2018)  BEI: 20 ppm, toluene [in end exhaled air]. Sampling time: during exposure.  BEI: 0.83 µmol/l, toluene [in end exhaled air]. Sampling time: during exposure.  BEI: 1 mg/l, toluene [in blood]. Sampling time: at the end of the work shift.  BEI: 10.85 µmol/l, toluene [in blood]. Sampling time: at the end of the work shift.  BEI: 1.05 mmol/mol creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.  BEI: 1 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of the work shift.  BEI: 1.58 mol/mol creatinine, hippuric acid [in urine]. Sampling

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.016/37

FX2007

butanone

xylene

## SECTION 8: Exposure controls/personal protection

time: at the end of the work shift.

BEI: 2.5 g/g creatinine, hippuric acid [in urine]. Sampling time: at the end of the work shift.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values and biological limit values (Croatia, 10/2018)

BEI: 2.6 mg/g creatinine, ethyl-methyl ketone [in urine]. Sampling time: at the end of the work shift.

BEI: 4.08 mmol/mol creatinine, ethyl-methyl ketone [in urine].

Sampling time: at the end of the work shift.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values and biological limit values (Croatia, 10/2018) [xylene]

BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift.

BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift.

BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.

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

#### Recommended monitoring procedures

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

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Toluene	DNEL	Short term Inhalation	226 mg/m³	General population [Human via the environment]	Systemic
	DNEL	Short term Inhalation	226 mg/m <sup>3</sup>	General population [Human via the environment]	Local
	DNEL	Long term Dermal	226 mg/m <sup>3</sup>	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	226 mg/kg bw/day	General population [Human via the environment]	Systemic
	DNEL	Long term Inhalation	56.5 mg/m³	General population [Human via the environment]	Systemic
	DNEL	Long term Oral	8.13 mg/ kg bw/day	General population	Systemic

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version : 7.01 7/37

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

## SECTION 8: Exposure controls/personal protection

			[Human via the	1
			<del>-</del>	
ראבי	l ong torm	102 ma/==3	environment]	Systemia
DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
DNEL	Long term Inhalation	192 mg/m³	Workers	Local
DNEL	Short term	384 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term	384 mg/m³	Workers	Local
DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	56.5 mg/m³	General population	Local
DNEI	Short term Dermal	117 ma/ka		Systemic
DNEL	Short term			Systemic
DNEL		11.8 ma/ka	Workers	Systemic
DNEL	Long term	8.3 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Long term Dermal	4.2 mg/kg	General population	Systemic
DNEL	Long term Inhalation	1.5 mg/m³	General population	Systemic
DNEL	Long term Oral	0.42 mg/kg	General population	Systemic
DNEL	Long term Dermal	1161 mg/ kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	600 mg/m³	Workers	Systemic
DNEL	Long term Dermal	412 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Inhalation	106 mg/m³	General population	Systemic
DNEL	Long term Oral	31 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	212 ma/m³	Workers	Systemic
DNEL	Long term Dermal	125 mg/kg	General	Systemic
DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
DNEL	Short term	289 mg/m³	Workers	Systemic
DNEL	Short term	442 mg/m³	Workers	Local
DNEL	Long term	65.3 mg/m³	General population	Systemic
DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
DNEL	Short term Inhalation	174 mg/m³	General	Systemic
DNEL	Long term Oral	1.5 mg/kg	General population	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Dermal DNEL Short term Inhalation DNEL Short term Dermal DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Oral DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Short term Inhalation	Inhalation DNEL Long term 192 mg/m³ Inhalation DNEL Short term 384 mg/m³ Inhalation DNEL Short term 384 mg/m³ Inhalation DNEL Long term Dermal 384 mg/kg bw/day DNEL Long term Bermal 384 mg/kg bw/day DNEL Long term Dermal 382.3 mg/m³ Inhalation DNEL Long term Dermal 383.3 mg/m³ Inhalation DNEL Long term Dermal 383.3 mg/kg bw/day DNEL Long term Dermal 383.3 mg/kg bw/day DNEL Long term Dermal 384 mg/kg bw/day DNEL Long term Dermal 382.3 mg/m³ Inhalation DNEL Long term Dermal 383.3 mg/kg bw/day DNEL Long term Dermal 384 mg/kg bw/day DNEL Long term Dermal 382.3 mg/m³ Inhalation DNEL Short term 282 mg/m³ Inhalation DNEL Short term 383 mg/m³ Inhalation DNEL Short term 384 mg/m³ Inhalation DNEL Short term 384 mg/kg bw/day	Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Short term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Short term Dermal Inhalation DNEL Short term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Short term Inhalation

**PNECs** 

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version: 7.01 8/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

## SECTION 8: Exposure controls/personal protection

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		55.8 mg/l	-
	Marine water	55.8 mg/l	-
	Sewage Treatment	709 mg/l	-
	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 measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection

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

Hand protection

: 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)

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.019/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

## SECTION 8: Exposure controls/personal protection

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

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

#### **Body protection**

- Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

controls

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

#### SECTION 9: Physical and chemical properties

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

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid.
Color : White.
Odor : Solvent.

Odor threshold : Not Available (Not Tested).

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

insoluble in water.

Melting point/freezing point

: 78°C

Initial boiling point and

boiling range

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

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version : 7.01 10/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### SECTION 9: Physical and chemical properties

Flash point : Closed cup: 2°C [Pensky-Martens Closed Cup]

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

Lower and upper explosion

: LEL: 1% (Toluene)

limit

UEL: 10% (Methyl Ethyl Ketone)

Vapor pressure : 12.1 kPa (90.6 mm Hg)

Relative vapor density : 2.48 [Air = 1]

Relative density : 1.31

Solubility(ies)

Media	Result
cold water	Not soluble

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

water

Auto-ignition temperature

Ingredient name	°C	°F	Method
Methyl Ethyl Ketone	475	887	
Toluene	480	896	

Decomposition temperature

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

Viscosity

: Kinematic (40°C): <20.5 mm<sup>2</sup>/s

Explosive properties Oxidizing properties

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

**Particle characteristics** 

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

9.2 Other information

Heat of combustion : 7.787 kJ/g

#### SECTION 10: Stability and reactivity

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

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

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

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

products.

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

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous

decomposition products

Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

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

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue :08, Nov, 2023 Version: 7.01 11/37

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX2007 SOLVENT BASED INTUMESCENT FX2007

## **SECTION 11: Toxicological information**

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
1,3,5-Triazine-2,4,6-triamine	LD50 Oral	Rat	3161 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-

#### **Acute toxicity estimates**

Route	ATE value	
Dermal Inhalation (gases)	65693.39 mg/kg 400132.44 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	-
		D 11.11		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
V.d	From Milel inviterat	Dalak i		mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Ckin Mild irritant	Dot		mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.0112/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

## **SECTION 11: Toxicological information**

	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Conclusion/Summary

: Not available.

**Sensitization** 

No data available

Conclusion/Summary

: Not available.

**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)

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.

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.0113/37

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

## **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	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 - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
No data available				

**Conclusion/Summary**: Not available.

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

#### 12.3 Bioaccumulative potential

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

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.0114/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

European waste catalogue (EWC) : Yes.

waste paint and varnish containing organic solvents or other hazardous substances

08 01 11\*

Disposal considerations

: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations.

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

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

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

European waste catalogue (EWC)

Special precautions

packaging containing residues of or contaminated by hazardous substances 15 01

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

## **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport Hazard Class(es)/ Label(s)	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

Date of issue/Date of revision : 08, Nov, 2023 Version: 7.01 : 12, Dec, 2023 Date of previous issue 15/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **SECTION 14: Transport information**

Additional	Special provisions 640 (C)	Emergency schedules F-E,	-
information	Tunnel code D/E	S-E	

user

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

the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO

instruments

: Not applicable.

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

## SECTION 15: Regulatory information

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

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

#### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

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

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

Product/ingredient name	%	Designation [Usage]
FIRETEX FX2007 SOLVENT BASED INTUMESCENT	≥90	3
toluene	≥10 - <25	48

Labeling : Not applicable.

Other EU regulations

**VOC content** (2010/75/EU) : 26.7 **w/w** 349 g/l

**Explosive precursors** 

: Not applicable.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### **National regulations**

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

Date of issue/Date of revision Version: 7.01 : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 16/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **SECTION 16: Other information**

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

Dangerous Goods by Road

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

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

Commission Regulation (EU) 2020/878

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

**CEPE Guidelines** 

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

Classification	Justification
Skin Irrit. 2, H315 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H336	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	

		Calculation method
:	H225	Highly flammable liquid and vapor.
	H226	Flammable liquid and vapor.
	H304	May be fatal if swallowed and enters airways.
	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
	H351	Suspected of causing cancer.
	H361	Suspected of damaging fertility or the unborn child.
	H361d	Suspected of damaging the unborn child.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.0117/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

#### **SECTION 16: Other information**

Full text of classifications

[CLP/GHS]

: Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Carc. 2 CARCINOGENICITY - Category 2

Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
Repr. 2 TOXIC TO REPRODUCTION - Category 2
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) - Category 3

Date of printing : 12, Dec, 2023.

Date of issue/ Date of

revision

: 12, Dec, 2023

Date of previous issue : 08, Nov. 2023

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

information.

Version : 7.01

#### Notice to reader

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

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

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

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

Date of issue/Date of revision : 12, Dec, 2023 Date of previous issue : 08, Nov, 2023 Version : 7.01 18/37

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX FX2007 SOLVENT BASED INTUMESCENT

FX2007

Date of issue/Date of revision: 12, Dec, 2023Date of previous issue: 08, Nov, 2023Version: 7.0119/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT	Professional painting, indoor brush/roller
SUMI	
Safe Use of Mixtures	
Information for end-users	

Title : 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**

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.

Date of issue/Date of revision	* ***	Date of previous issue	: No previous validation Version	1	20/37

.





#### **Disclaimer**

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

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

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 21/37

Title : Industrial spray painting, no booth

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

## General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

## **Operational conditions**

Place of use : Indoor use

## Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventila	ation	
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 22/37

.







#### **Disclaimer**

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

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

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 23/37

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

 Date of issue/Date of revision
 : \*\*\*
 Date of previous issue
 : No previous validation
 Version
 1
 24/37

See chapter 8 of this Safety Data Sheet for specifications.





#### **Disclaimer**

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

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

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 25/37

Title : Professional painting, outdoor brush/roller

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

## General description of the process covered

Outdoor painting by professionals with brush or roller

## **Operational conditions**

Place of use : Outdoor use

## Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies) duration		Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	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.

Date of issue/Date of revision	* ***	Date of previous issue : No previous validation Version	1	26/37

.





## **Disclaimer**

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

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

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 27/37

Title : Industrial spray painting, walk-in booth

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

## General description of the process covered

Paint application on industrial line with walk-in spray booth

## **Operational conditions**

Place of use : Indoor use

## Risk management measures (RMM)

Preparation of material for application equipment and handling of coated parts before curing Industrial application equipment and handling of coated parts before curing Industrial application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying PROC07 More than 4 hours Local exhaust ventilation Refer to relevant technical standards  PROC08b More than 4 hours Local exhaust ventilation Refer to relevant technical standards standards  PROC05 More than 4 hours Local exhaust ventilation Refer to relevant technical standards  PROC05 More than 4 hours Local exhaust ventilation Refer to relevant technical standards  PROC05 More than 4 hours Local exhaust ventilation Refer to relevant technical standards  PROC05 More than 4 hours Enhanced (mechanical) room ventilation Refer to relevant technical standards  PROC05 More than 4 hours Enhanced (mechanical) room ventilation PROC05 Enhanced (mechanical) room ventilation Refer to relevant technical standards  PROC05 More than 4 hours Enhanced (mechanical) room ventilation PROC05 Enhanced (mechanical) room ventilation PR	Contributing activity	Process category	Maximum	Ventilation		
Loading of application Loading of application Loading of application equipment and handling of coated parts before curing Industrial application of coated parts before curing FROCO7  More than 4 hours  Enhanced (mechanical) room ventilation  PROCO7  More than 4 hours  Enhanced (mechanical) room ventilation  Froce drying, stoving and other technologies  PROCO4  More than 4 hours  Enhanced (mechanical) room ventilation  Froce drying, stoving and other technologies  PROCO5  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Froce than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Froce than 4 hours  Enhanced (mechanical) room ventilation  Frocal mechanical yroom ventilation  Froce than 4 hours  Enhanced (mechanical) room ventilation  Froce than 4 hours  Enhanced (mechanical) room ventilation  From than 4 hours  Enhance		(ies)	duration	Туре		
equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  For the process of the process category (les)  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  For the process of the process of the process category (les)  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  For the process of t		PROC05	More than 4 hours		5 - 10	
Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation of material for application  PROC08b  PROC05  None  PROC05  None  Use eye protection according to EN 166.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  None  No	equipment and handling of	PROC08b	More than 4 hours		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  Waste management PROC08b More than 4 hours Enhanced (mechanical) room ventilation  Contributing activity Process category (les)  Respiratory Eye Hands  Contributing activity Process category (les)  None Use eye protection according to EN 166.  Loading of application equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning PROC05 None Use eye protection according to EN 166.  Vear suitable gloves tested to EN374.		PROC07	More than 4 hours	Local exhaust ventilation		
Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  For entilation  Frequent of material for application  PROC05  None  PROC05  None  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  PROC04  None  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.		PROC04	More than 4 hours		5 - 10	
Contributing activity Process category (ies) Preparation of material for application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying Film formation - force drying, stoving and other technologies Cleaning PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies Cleaning  PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies Cleaning  PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies Cleaning  PROC05  More than 4 hours  Film formation - force drying, stoving and other technologies  PROC05  None  PROC06  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  None  None  None  Wear suitable gloves tested to EN374.	Cleaning	PROC05	More than 4 hours	Local exhaust ventilation		
Contributing activity Process category (ies)  Preparation of material for application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying Film formation - force drying, stoving and other technologies Cleaning  PROC05  None  Respiratory  Respiratory  Eye  Hands  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Vone  None  None  Use eye protection according to EN 166.  Vear suitable gloves tested to EN374.		PROC05	More than 4 hours		5 - 10	
Preparation of material for application  PROC05  None  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Vone  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.  PROC04  None  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.	Waste management	PROC08b	More than 4 hours		5 - 10	
application  Loading of application equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  None  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.	Contributing activity		Respiratory	Eye	Hands	
equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  None  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.	•	PROC05	None		o o	
coatings and inks by spraying apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning PROC05  None Use eye protection according to EN 166.  tested to EN374.  tested to EN374.	equipment and handling of	PROC08b	None			
stoving and other technologies  Cleaning  PROC05  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.		PROC07	apparatus to EN 14594 with an assigned protectio	according to EN 166.	· ·	
according to EN 166. tested to EN374.		PROC04	None	None	None	
Application equipment PROC05 None Use eye protection Wear suitable gloves	Cleaning	PROC05				
	Application equipment	PROC05	None	Use eye protection	Wear suitable gloves	

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 28/37

FIRETEX FX2007 SOLVE	ENT BASED INTUMES	Industrial spray painting, walk-in booth			
cleaning outside booth			according to EN 166.	tested to EN374.	
Waste management	PROC08b		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.







## **Disclaimer**

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

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

.

Title : Industrial spray painting, enclosed

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

## General description of the process covered

Paint application on industrial line with fully-enclosed spraying

## **Operational conditions**

Place of use : Indoor use

## Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent	
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	None	None	None	
Film formation - force drying, stoving and other technologies	PROC02	None None		None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Application equipment cleaning outside booth	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Date of issue/Date of revision	***	Date of previous is	sue : No previous validation	Version 1 30/37	

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 30/37

FIRETEX FX2007 SOLVENT BASED INTUNESCENT			industrial spray painting, enclosed		
Waste management	PROC08b	None	Use eye protection	Wear suitable gloves	
			according to EN 166.	tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.





#### **Disclaimer**

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

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

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 31/37

.

# 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 combination with 'basic' employee training.	

Date of issue/Date of revision: \*\*\*Date of previous issue: No previous validationVersion132/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT			Professional 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.





## **Disclaimer**

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

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

# SUMI Safe Use of Mixtures Information for end-users

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

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

## General description of the process covered

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

## **Operational conditions**

Place of use : Indoor use

## Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	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.	

Date of issue/Date of revision: \*\*\*Date of previous issue: No previous validationVersion134/37

## FIRETEX FX2007 SOLVENT BASED INTUMESCENT Industrial application of coatings and inks by other than spraying-Enclosed

Application equipment cleaning outside booth	PROC05	, ,	Wear suitable gloves tested to EN374.
Waste management	PROC08b	, ,	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.





## **Disclaimer**

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

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

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 35/37

.

# SUMI Safe Use of Mixtures Information for end-users

Title : 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 : 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	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 combination with 'basic'	

Date of issue/Date of revision: \*\*\*Date of previous issue: No previous validation Version136/37

FIRETEX FX2007 SOLVENT BASED INTUMESCENT			Prof	fessional 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.





## **Disclaimer**

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

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