SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: FIRETEX FX9500 Epoxy Intumescent - Additive
Product code	: FX9500A
1 2 Polovant identified (ises of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
waterial uses	: Industrial use only.
1.3 Details of the supplie sheet	er of the safety data
Sherwin-Williams UK Lim Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	nited - Protective & Marine
The Sherwin-Williams Co Inver France SAS 2 Rue Jean Revaus - BP Thouars CEDEX France	
e-mail address of perso responsible for this SD	
1.4 Emergency telephon	e 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
	g to Regulation (EC) No. 1272/2008 [CLP/GHS]
Flam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 2, H411	
The product is classified	as hazardous according to Regulation (EC) 1272/2008 as amended.
Date of issue/Date of revision	: 15, Apr, 2024 Date of previous issue : 08, Nov, 2023 Version : 11.01

FIRETEX FX9500 Epoxy Intumescent - Additive FX9500A

SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor.
Response	: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	 1,3,5-Triazine-2,4,6-triamine Fatty acids, tall-oil, reaction products with tetraethylenepentamine 3,6,9-triazaundecamethylenediamine
Supplemental label elements	: FOR INDUSTRIAL USE ONLY
Special packaging requiren	nents
Not applicable.	

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Date of issue/Date of revision	: 15, Apr, 2024	Date of p	revious issue : 08, Nov, 2023	Version : 11.01 SHW-A4-EU-CLP44-	2/1

Conforms to Regulation (E	C) No. 1007/2006 (PE	ACH) Anno	× 11		
FIRETEX FX9500 Epoxy Intumesce	, ,	ACH), AIIIIE	K 11		
FX9500A					
SECTION 3: Compositi	on/information or	n ingredier	nts		
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]
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	EC: 273-201-6 CAS: 68953-36-6	≥10 - ≤21	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	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]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/kg	[1]
tert-Butylphenyl diphenyl phosphate	EC: 260-391-0 CAS: 56803-37-3	≤2	Acute Tox. 4, H332 Aquatic Acute 1, H400	ATE [Inhalation (vapours)] = 11 mg/	[1]
Triphenyl Phosphate	REACH #: 01-2119457432-41 EC: 204-112-2 CAS: 115-86-6	≤1.8	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1 M [Acute] = 1	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
3,6,9-triazaundecamethylenediamine	REACH #: 01-2119487290-37 EC: 203-986-2 CAS: 90640-66-7 Index: 612-060-00-0	<1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg	[1]

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

<u>Туре</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.

Date of previous issue : 08, Nov, 2023

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	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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.

Contains Fatty acids, tall-oil, reaction products with tetraethylenepentamine, 3,6,9-triazaundecamethylenediamine. May produce an allergic reaction.

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

SECTION 5: Firefighting measures

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		Cool closed containers exposed to fire with water. Do not release runoff from fire to
for fire-fighters	•	drains or watercourses.

Special protective	: Fire-fighters should wear positive pressure self-contained breathing apparatus
equipment for fire-fighters	(SCBA) and full turnout gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, pr	e equipment and emergency procedures	
For non-emergency personnel	clude sources of ignition and ventilate the area. Avoid b fer to protective measures listed in sections 7 and 8.	reathing vapor or mist.
	ep unnecessary and unprotected personnel from enterin	ng.
For emergency responders	specialized clothing is required to deal with the spillage, ormation in Section 8 on suitable and unsuitable materia ormation in "For non-emergency personnel".	
6.2 Environmental precautions	o not allow to enter drains or watercourses. If the produc ers, or sewers, inform the appropriate authorities in acco gulations.	
6.3 Methods and materials for containment and cleaning up	ontain and collect spillage with non-combustible, absorberth, vermiculite or diatomaceous earth and place in cont cording to local regulations (see Section 13). Preferably oid using solvents.	ainer for disposal
6.4 Reference to other sections	e Section 1 for emergency contact information. e Section 8 for information on appropriate personal prot e 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).

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				SHW-A4-EU-CLP44-HR	

SECTION 7: Handling and storage

	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.
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 30°C.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.

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

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

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Xylene, mixed isomers	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). [xylene (all isomers)] Absorbed through skin. STELV: 442 mg/m ³ 15 minutes. STELV: 100 ppm 15 minutes. ELV: 221 mg/m ³ 8 hours.
Ethylbenzene	ELV: 50 ppm 8 hours. Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 884 mg/m ³ 15 minutes. STELV: 200 ppm 15 minutes. ELV: 442 mg/m ³ 8 hours. ELV: 100 ppm 8 hours.

Biological exposure indices

FX9500A

SECTION 8: Exposure controls/personal protection

Product/ingredi	ent name	Exposure indices
xylene		Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) [xylene] BEI: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 14.13 µmol/l, xylene [in blood]. Sampling time: at the end of the work shift. BEI: 0.88 mol/mol creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: at the end of the work shift.
ethylbenzene		Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 1.5 mg/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 14.1 µmol/l, ethylbenzene [in blood]. Sampling time: during exposure. BEI: 1.12 mol/mol creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week. BEI: 1.5 g/g creatinine, almond acid [in urine]. Sampling time: at the end of the work shift and at the end of the working week.
Recommended monitoring procedures	European Stand assessment of values and mea atmospheres - (of exposure to o (Workplace atm for the measure documents for r required.	Id be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit isurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 isospheres - General requirements for the performance of procedures of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be ring of all work areas should be carried out at all times, including

 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
1,3,5-Triazine-2,4,6-triamine	DNEL	Short term Dermal	117 mg/kg	Workers	Systemic
	DNEL	Short term Inhalation	82.3 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	11.8 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	8.3 mg/m³	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
Kylene, mixed isomers	DNEL	Long term Dermal	212 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	125 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local

FX9500A

SECTION 8: Exposure controls/personal protection

	10, por co.				
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	_	population	
	DNEL	Short term	174 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
				population	
2,4,6-tris(dimethylaminomethyl)	DNEL	Long term	0.53 mg/m ³	Workers	Systemic
phenol		Inhalation			
	DNEL	Short term	2.1 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	00	Workers	Systemic
	DNEL	Short term Dermal		Workers	Systemic
	DNEL	Long term	0.13 mg/m ³		Systemic
		Inhalation		population	
	DNEL	Short term	0.13 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.075 mg/	General	Systemic
			kg	population	
	DNEL	Short term Dermal	0.075 mg/	General	Systemic
			kg	population	
	DNEL	Long term Oral	0.075 mg/	General	Systemic
			kg	population	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
1,3,5-Triazine-2,4,6-triamine	Fresh water	0.5 mg/l	-
	Marine water	0.05 mg/l	-
	Sewage Treatment	200 mg/l	-
	Plant		
	Fresh water sediment	2.524 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	Fresh water	0.046 mg/l	-
	Marine water	0.005 mg/l	-
	Sewage Treatment	0.262 mg/l	-
	Plant		
	Soil	0.025 mg/kg	-

8.2 Exposure controls Appropriate engineering : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If controls 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. Contaminated work clothing should not be allowed out of the workplace. 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 :

SECTION 8: Exposure controls/personal protection

	Gloves for short term exposure/splash protection (less than 10 min.): Nitrile>0.12
	mm
	Gloves for splash protection need to be changed immediately when in contact with
	chemicals.
	Gloves for repeated or prolonged exposure (breakthrough time > 240 min.)
	When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol
	(PVA) gloves 0.2-0.3 mm
	Otherwise use: Butyl gloves >0.3 mm
	For long term exposure or spills (breakthrough time >480 min.): Use PE laminated
	gloves as under gloves
	Due to many conditions (e.g. temperature, abrasion) the practical usage of a
	chemical protective glove in practice may be much shorter than the permeation time
	determined through testing.
	The recommendation for the type or types of glove to use when handling this
	product is based on information from the following source: Solvent resin
	manufacturers and European Solvents Industry Group (ESIG)
	There is no one glove material or combination of materials that will give unlimited
	resistance to any individual or combination of chemicals.
	The breakthrough time must be greater than the end use time of the product.
	The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
	Gloves should be replaced regularly and if there is any sign of damage to the glove
	material.
	Always ensure that gloves are free from defects and that they are stored and used
	correctly.
	The performance or effectiveness of the glove may be reduced by physical/chemical
	damage and poor maintenance.
	Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
	The user must check that the final choice of type of glove selected for handling this
	product is the most appropriate and takes into account the particular conditions of
	use, as included in the user's risk assessment.
Body protection	: Personnel should wear antistatic clothing made of natural fibers or of high-
	temperature-resistant synthetic fibers.
	: Personal protective equipment for the body should be selected based on the task
	being performed and the risks involved and should be approved by a specialist
	before handling this product. When there is a risk of ignition from static electricity,
	wear anti-static protective clothing. For the greatest protection from static
	discharges, clothing should include anti-static overalls, boots and gloves. Refer to
	European Standard EN 1149 for further information on material and design
	requirements and test methods.
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.
Environmontal	
Environmental exposure controls	: Do not allow to enter drains or watercourses.
CONTROIS	

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

on madel on backe phys			
<u>Appearance</u>			
Physical state	: Liquid.		
Color	: Blue.		
Odor	: Solvent.		
Odor threshold	: Not Available (Not Tested).		
рН	Not relevant/applicable due to nature of the product.		
F	insoluble in water.		
Melting point/freezing point	: Not relevant/applicable due to nature of the product.		
Initial boiling point and	: 136°C		
boiling range			
Flash point	: Closed cup: 30°C [Pensky-Martens Closed Cup]		
Evaporation rate	: 0.8 (butyl acetate = 1)		
Flammability	: Flammable liquid.		
Lower and upper explosion	: LEL: 1% (Xylene, mixed isomers)		
limit	UEL: 7% (Xylene, mixed isomers)		
Vapor pressure	: 0.95 kPa (7.1 mm Hg)		
Relative vapor density	: 3.66 [Air = 1]		
Relative density	: 1.37		
Solubility(ies)	:		
Media	Result		
cold water	Not soluble		
Partition coefficient: n-octan water	<i>ol</i> / : Not relevant/applicable due to nature of the product.		
Auto-ignition temperature	: Not relevant/applicable due to nature of the product.		
Decomposition temperature	: Not relevant/applicable due to nature of the product.		
Viscosity	: Kinematic (40°C): >20.5 mm²/s		
Explosive properties	: Under normal conditions of storage and use, hazardous reactions will not occur.		
Oxidizing properties	: Under normal conditions of storage and use, hazardous reactions will not occur.		
Particle characteristics			
Median particle size	: Not relevant/applicable due to nature of the product.		
9.2 Other information			
Heat of combustion	: 3.834 kJ/g		
SECTION 10: Stability an	d 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.		

SECTION 10: Stability and reactivity

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

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

SECTION 11: Toxicological information

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

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

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

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

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

Ingestion may cause nausea, diarrhea and vomiting.

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.

Contains Fatty acids, tall-oil, reaction products with tetraethylenepentamine, 3,6,9-triazaundecamethylenediamine. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,3,5-Triazine-2,4,6-triamine	LD50 Oral	Rat	3161 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Triphenyl Phosphate	LD50 Dermal	Rabbit	>7900 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
3,6,9-triazaundecamethylenediamine	LD50 Oral	Rat	3990 mg/kg	-

Acute toxicity estimates

Route	ATE value		
	61368.05 mg/kg		
Dermal	17182.89 mg/kg		
Inhalation (gases)	104659.4 ppm		
Inhalation (vapors)	365.09 mg/l		

Irritation/Corrosion

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

Date of previous issue : 08, Nov, 2023

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,3,5-Triazine-2,4,6-triamine	Eyes - Mild 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	
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl) phenol				ug	
F.	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Severe irritant	Rat	-	0.25 MI	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
-	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
3,6,9-triazaundecamethylenediamine	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	5 mg	-
	Skin - Severe irritant	Rabbit	-	495 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
				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
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

SECTION 11: Toxicological information

Product/ingredient name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
tert-Butylphenyl diphenyl phosphate	Acute LC50 300 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
Triphenyl Phosphate	Acute EC50 225 µg/l Fresh water	Fish - Oncorhynchus mykiss - Fingerling	96 hours
	Acute LC50 320 to 560 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 0.09 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.01 mg/l	Algae - Chlorella vulgaris	3 days
	Chronic NOEC 50 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 131 ng/L Fresh water	Fish - Oryzias latipes - Larvae	103 days
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
-	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

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
Xylene, mixed isomers Ethylbenzene	-		-		Readily Readily	

12.3 Bioaccumulative potential

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

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
1,3,5-Triazine-2,4,6-triamine	-	<3.8	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low
Triphenyl Phosphate	-	144	Low

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<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.
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*

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

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SECTION 13: Disposal considerations

Special precautions: This material and its container must be disposed of in a safe way. Care should be
taken when handling emptied containers that have not been cleaned or rinsed out.
Empty containers or liners may retain some product residues. 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	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE. Marine pollutant (Fatty acids, tall-oil, reaction products with tetraethylenepentamine, Triphenyl Phosphate)	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport Hazard Class(es)/ Label(s)	3 (8)	3 (8)	3 (8)
14.4 Packing group	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-C	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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 : Not applicable. **bulk according to IMO instruments**

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture 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 FX9500 Epoxy I toluene	ntumescent - Additiv	ve	≥90 ≤0.1	3 48
Labeling Other EU regulations	: Not applicable		· · · · · · · · · · · · · · · · · · ·	
VOC content (2010/75/EU) : 7.5 w/w 103 g/l			
Explosive precursors <u>Seveso Directive</u>	: Not applicable			
This product may add to th major accident hazards.	e calculation for det	ermining whether a site	is within the scope of	of the Seveso Directive on
National regulations				
15.2 Chemical Safety Assessment	: No Chemical S	afety Assessment has I	been carried out.	
SECTION 16: Other info	ormation			
Indicates information that	has changed from p	previously issued versio	n.	
Abbreviations and acronyms	1272/2008] DMEL = Derive DNEL = Derive EUH statemen PBT = Persiste PNEC = Predie RRN = REACH	cation, Labelling and Pa ed Minimal Effect Level ed No Effect Level at = CLP-specific Hazard ent, Bioaccumulative an cted No Effect Concentr H Registration Number ersistent and Very Bioa	d statement d Toxic ration	[Regulation (EC) No.
Key literature references and sources for data	ADR = The Eu Dangerous Go IATA = Interna IMDG = Intern Conforms to R Commission R	tional Air Transport Ass ational Maritime Dangel	cerning the Internati sociation rous Goods 7/2006 (REACH), A 8	nnex II, as amended by
Date of issue/Date of revision	15, Apr, 2024	Date of previous issue	: 08. Nov. 2023	Version : 11.01 16/3

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SECTION 16: Other information

Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions CEPE Guidelines

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

Classification		Justification	
Flam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 2, H411		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 Fla	ghly flammable liquid and vapor. ammable liquid and vapor. armful if swallowed.	
	H304 Ma H312 Ha	ay be fatal if swallowed and enters airways. Irmful in contact with skin. Iuses severe skin burns and eye damage.	
	H315 Ca H317 Ma	uses skin irritation. ay cause an allergic skin reaction.	
	H319 Ca	luses serious eye damage. luses serious eye irritation. Irmful if inhaled.	
	H351 Su H361 Su H373 Ma	ay cause respiratory irritation. spected of causing cancer. spected of damaging fertility or the unborn child. ay cause damage to organs through prolonged or repeated posure.	
	H410 Ve H411 To	ry toxic to aquatic life. ry toxic to aquatic life with long lasting effects. xic to aquatic life with long lasting effects. ırmful to aquatic life with long lasting effects.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 STOT RE 2	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - 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 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	
Date of printing	: 15, Apr, 2024.		
Date of issue/ Date of revision	: 15, Apr, 2024		

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

Conforms to Regulation (E FIRETEX FX9500 Epoxy Intumeso FX9500A	EC) No. 1907/2006 (REACH), Annex II cent - Additive	
SECTION 16: Other information		
Date of previous issue	: 08, Nov, 2023	

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

Version : 11.01

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:

information.

• 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.