SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: FIRETEX M89/02 Syntactic Epoxy Insulant - Additive
Product code	: M89/02A
1.2 Polovant identified us	as of the substance or mixture and uses advised against
	es of the substance or mixture and uses advised against
Material uses	Paint or paint related material.Industrial use only.
	· muusinaruse only.
1.3 Details of the supplier sheet	of the safety data
Sherwin-Williams UK Limite Coatings Division EMEAI Tower Works Kestor Street Bolton BL2 2AL United Kingdom +44 (0) 1204 521771	∋d - Protective & Marine
The Sherwin-Williams Com Inver France SAS 2 Rue Jean Revaus - BP 80 Thouars CEDEX France	
e-mail address of person responsible for this SDS	: hse.pm.emea@sherwin.com
1.4 Emergency telephone	number
National advisory body/P	oison Center
Telephone number	: 111 (general public) /0344 892 111 (Medical professional (NHS) only)
<u>Supplier</u>	
Telephone number	: +(44)-870-8200 418
Hours of operation	: Emergency contact available 24 hours a day
·····	
SECTION 2: Hazards in	dentification
2.1 Classification of the su	bstance or mixture
Product definition	: Mixture
Classification according	to Regulation (EC) No. 1272/2008 [CLP/GHS]
Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
The product is classified as	hazardous according to Regulation (EC) 1272/2008 as amended.
See Section 16 for the full t	ext of the H statements declared above.
See Section 11 for more de	etailed information on health effects and symptoms.
Date of issue/Date of revision	: 15, Apr, 2024 Date of previous issue : 25, Jan, 2024 Version : 8.02

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SECTION 2: Hazards identification

22	Ishal	elements
Z.Z	Laber	elements

Hazard pictograms	
Signal word	: Danger
Hazard statements	: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor.
Response	: Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Polyamidoamine Polyamidoamine
Supplemental label elements	: FOR INDUSTRIAL USE ONLY
Special packaging requiren	nents
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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Polyamidoamine	REACH #: 01-2119972321-42 EC: 500-289-8 CAS: 103758-98-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
Polyamidoamine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
Isopentane	EC: 201-142-8 CAS: 78-78-4 Index: 601-085-00-2	≤0.3	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1] [2]
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				SHW-A4-EU-CLP44-L	JA

SECTION 3: Composition/information on ingredients

•	5		
		EUH066	
		See Section 16 for	
		the full text of the H	
		statements declared	
		above.	

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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	:	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.

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.

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SECTION 4: First aid measures

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 f	ron	n 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	:	Fire-fighters should wear positive pressure self-contained breathing apparatus

(SCBA) and full turnout gear.

SECTION 6: Accidental release measures

equipment for fire-fighters

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
For emergency responders	:	Keep unnecessary and unprotected personnel from entering. 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.

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SECTION 7: Handling and storage

	 Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all
	cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.
7.2 Conditions for safe storage, including any incompatibilities	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Contaminated absorbent material may pose the same hazard as the spilled product. Store in closed original container at temperatures between 5°C and 25°C.
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific	: Not available.
· · · · · · · · · · · · · · · · · · ·	

Industrial sector specific 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
•	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 3000 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.

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SECTION 8: Exposure controls/personal protection

Biological exposure indices

No exposure indices known.

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.
	. Pogular manitoring 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

No DNELs/DMELs available.

PNECs

No PNECs available.

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 vapor below the OEL, suitable respiratory protection must be worn. Users are advised to consider national Occupational Exposure Limits or other equivalent values. 					
Individual protection meas	•					
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	 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) 					

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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 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.
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	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Yellow.
Odor	: Paint
Odor threshold	: Not Available (Not Tested).
pН	 Not relevant/applicable due to nature of the product. insoluble in water.
Melting point/freezing point	: Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	: Not relevant/applicable due to nature of the product.
Flash point	: Closed cup: 499°C [Pensky-Martens Closed Cup]
Evaporation rate	: Not relevant/applicable due to nature of the product.
Flammability	: Not relevant/applicable due to nature of the product.

Conforms to Regulation (EC)	No. 1	907/2006	(REACH), A	Annex II		
FIRETEX M89/02 Syntactic Epoxy Ins	ulant -	Additive				
M89/02A SECTION 9: Physical and	1 che	mical n	ronartias			
Lower and upper explosion		•	•	ble due to nat	ure of the	product
limit			vant, applica			
Vapor pressure	:			ble due to nat		-
Relative vapor density	:		vant/applical	ble due to nat	ure of the	product.
Relative density	:	0.54				
Solubility(ies)	:					
Media		Result				
cold water		Not so	luble			
Partition coefficient: n-octai water	nol/ :	Not relev	vant/applical	ble due to nat	ure of the	product.
Auto-ignition temperature	:			i		1
Ingredient name			°C	°F		Method
Castor Oil Derivative			380	716		
Decomposition temperature	:	Not relev	vant/applical	ble due to nat	ure of the	product.
Viscosity	:	Kinemat	tic (40°C): >2	20.5 mm²/s		
Explosive properties	:	Under n	ormal condit	ions of storag	e and use	, hazardous reactions will not occur.
Oxidizing properties	:	Under n	ormal condit	ions of storag	ge and use	, hazardous reactions will not occur.
Particle characteristics						
Median particle size	:	Not relev	/ant/applicat	ole due to nat	ure of the p	product.
9.2 Other information						
Heat of combustion	:	3.3 kJ/g				
SECTION 10: Stability ar						
10.1 Reactivity		-	test data rela	ated to reactiv	vitv availab	le for this product or its ingredients.
		opeenie				
10.2 Chemical stability	: Sta	able unde	r recommen	ded storage a	and handlir	ng conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Un	Under normal conditions of storage and use, hazardous reactions will not occur.				
10.4 Conditions to avoid		nen expos oducts.	sed to high t	emperatures	may produ	ce hazardous decomposition
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 oxides of nitro		ng materials: carbon monoxide,

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

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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
Isopentane	LC50 Inhalation Vapor	Rat	280000 mg/m ³	4 hours

Acute toxicity estimates

No data available

Irritation/Corrosion

No data available

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
Isopentane	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

Product/ingredient name	Result
Isopentane	ASPIRATION HAZARD - Category 1

11.2 Information on other hazards

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SECTION 11: Toxicological information

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.

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

12.3 Bioaccumulative potential

No data available

Product/ingredient name	LogPow	BCF	Potential
Isopentane	-	171	Low

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
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SECTION 13: Disposal considerations

-		
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.
<u>Packaging</u>		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	:	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
European waste catalogue (EWC)	:	packaging containing residues of or contaminated by hazardous substances 15 01 10*
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyamidoamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyamidoamine). Marine pollutant (Polyamidoamine)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyamidoamine)
14.3 Transport Hazard Class(es)/ Label(s)	9	9	9
14.4 Packing group	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.
Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. Tunnel code (-)	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency schedules</u> F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II FIRETEX M89/02 Syntactic Epoxy Insulant - Additive

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SECTION 14: Transport information

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

14.7 Maritime transport in : Not applicable. **bulk according to IMO instruments**

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

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 M89/02 Syntactic Epoxy Insulant - Additive			:	≥90	3	
Labeling : Not applicable.						
<u>Other EU regulations</u>						
VOC content (2010/75/EU)	:	0.16 0				
Explosive precursors : Not applicable.						
<u>Seveso Directive</u>						
This product may add to the major accident hazards.	cal	culatio	whether a site is within th	e scope	e of the Seveso Directive on	
National regulations						
5.2 Chemical Safety ssessment	:	No Ch	essment has been carrie	d out.		

SECTION 16: Other information

Indicates information that has changed from previously issued version.					
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate 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 				

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SECTION 16: Other information

Key literature references	: Regulation (EC) No. 1272/2008 [CLP]
and sources for data	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]

Classif	ication	Justification
Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411		Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H304May beH315CausesH317May caH318CausesH336May caH411Toxic to	ely flammable liquid and vapor. fatal if swallowed and enters airways. s skin irritation. use an allergic skin reaction. s serious eye damage. use drowsiness or dizziness. o aquatic life with long lasting effects. ed exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	: Aquatic Chronic 2 Asp. Tox. 1 Eye Dam. 1 Flam. Liq. 1 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT SE 3	AQUATIC HAZARD (LONG-TERM) - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1A 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 previous issue	: 25, Jan, 2024	
	: If there is no previous val information.	idation date please contact your supplier for more
Version	: 8.02	

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

SECTION 16: Other information

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

SUMI Safe Use of Mixtures Information for end-users

: Industrial spray painting, enclosed

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

General description of the process covered

Paint application on industrial line with fully-enclosed spraying

Operational conditions

Title

Place of use : Indoor use

Risk management measures (RMM)

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

FIRETEX M89/02 Synta	ctic Epoxy Insulant - A	Industrial sp	ray painting, enclosed	
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.



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SUMI	
Safe Use of Mixtures	
Information for end-users	

: Industrial spray painting, no booth

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

General description of the process covered

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

Operational conditions

Title

Place of use : Indoor use

Risk management measures (RMM)

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

See chapter 8 of this Safety Data Sheet for specifications.

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: No previous validation Version

FIRETEX M89/02 Syntactic Epoxy Insulant - Additive



Disclaimer

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FIRETEX M89/02 Syntactic Epoxy Insulant - Additive

SUMI Safe Use of Mixtures Information for end-users

: Professional application of coatings and inks by spraying-Outdoor

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

General description of the process covered

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

Operational conditions

Title

Place of use : Outdoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies) duration		Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	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 spraying	PROC11	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 spraying	PROC11	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08a	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.

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SUMI Safe Use of Mixtures Information for end-users

: Professional painting, outdoor brush/roller

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

General description of the process covered

Outdoor painting by professionals with brush or roller

Operational conditions

Title

Place of use : Outdoor use

Risk management measures (RMM)

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

See chapter 8 of this Safety Data Sheet for specifications.

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SUMI Safe Use of Mixtures Information for end-users

: Industrial spray painting, walk-in booth

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

General description of the process covered

Paint application on industrial line with walk-in spray booth

Operational conditions

Title

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	s) duration		ach (air changes per hour)	
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	_ocal exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	_ocal exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

FIRETEX M89/02 Syntactic Epoxy Insulant - Additive			Industrial spray painting, walk-in booth		
cleaning outside booth			according to EN 166.	tested to EN374.	
Waste management	PROC08b	None	5 1	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.



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FIRETEX M89/02 Syntactic Epoxy Insulant - Additive Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

SUMI Safe Use of Mixtures Information for end-users

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

General description of the process covered

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

Operational conditions

Place of use

: Indoor use

Risk management measures (RMM)

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

FIRETEX M89/02 Syntactic Epoxy Insulant - Additive Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

See chapter 8 of this Safety Data Sheet for specifications.



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FIRETEX M89/02 Syntactic Epoxy Insulant - Additive Industrial application of coatings and inks by other than spraying-Enclosed

SUMI Safe Use of Mixtures Information for end-users

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

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

General description of the process covered

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

Operational conditions

Place of use

Title

: Indoor use

Risk management measures (RMM)

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

FIRETEX M89/02 Syntactic Epoxy Insulant - Additive			Industrial ap	plication of coatings a	nd inks by other than spraying-Enclosed
Application equipment cleaning outside booth	PROC05	None			Wear suitable gloves tested to EN374.
Waste management	PROC08b	None		5 1	Wear suitable gloves tested to EN374.

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