

FiberFix® Flex Patch JRP Distribution Ltd

Version No: 1.3

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Issue Date: **10/26/2023** Print Date: **10/26/2023** S.REACH.GB.EN

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

1.1. Product Identifier

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Product name	FiberFix® Flex Patch	
Synonyms	39201 (Flexible adhesive patch)	
Other means of identification	Not Available	

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

Relevant identified uses	Sealant and adhesive.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	JRP Distribution Ltd
Address	Unit 10A, Business Park, City Fields Way Tangmere PO20 2FT United Kingdom
Telephone	+44 1903 750355
Fax	Not Available
Website	www.jbweld.com
Email	info@jbweld.com

1.4. Emergency telephone number

Association / Organisation	Department of Health & Social Care (DHSC)	
Emergency telephone numbers	112	
Other emergency telephone numbers	Not Available	

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to
GB-CLP Regulation, UK SI
2019/720 and UK SI 2020/1567
[1]

Not Applicable

2.2. Label elements

ELE LUDO OGNIONO	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Version No: 1.3 Page 2 of 12 Issue Date: 10/26/2023

FiberFix® Flex Patch

Print Date: 10/26/2023

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

Cumulative effects may result following exposure*.

Limited evidence of a carcinogenic effect*.

glass, oxide	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
polyethylene terephthalate	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1. 65997-17-3 2.266-046-0 3.Not Available 4.Not Available	10-20	glass. oxide	Not Applicable	Not Available	Not Available
1. 9003-55-8 2.Not Available 3.Not Available 4.Not Available	10-20	styrene/ butadiene copolymer	Not Applicable	Not Available	Not Available
1. 25038-59-9 2.Not Available 3.Not Available 4.Not Available	1-10	polyethylene terephthalate [e]	Not Applicable	Not Available	Not Available
1. 65996-61-4 2. Not Available 3. Not Available 4. Not Available	10-20	glassine paper	Not Applicable	Not Available	Not Available
1. 64742-16-1 2.265-116-8 3.Not Available 4.Not Available	30-40	hydrocarbon resin, postpolymerised with maleic anhydride	Not Applicable	Not Available	Not Available
1. 8012-95-1. 2.232-384-2 3.Not Available 4.Not Available	10-20	paraffin oils	Not Applicable	Not Available	Not Available
Legend:			n from GB-CLP Regulation, UK SI 2019/720 and U entified as having endocrine disrupting properties	JK SI 2020/1567;	3. Classification drawn

SECTION 4 First aid measures

4.1. Description of first aid measures		
Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. In case of burns: Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth. Do NoT remove or cut away clothing over burnt areas. Do NoT pull away clothing which has adhered to the skin as this can cause further injury. Do NoT break blister or remove solidified material. Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth. Do NoT apply ointments, oils, butter, etc. to a burn under any circumstances. Water may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances. Reassure. Treat for shock by keeping the person warm and in a lying position. Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient. For thermal burns: Decontaminate area around burn.	

Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin)

Version No: 1.3 Page 3 of 12 Issue Date: 10/26/2023 Print Date: 10/26/2023

FiberFix® Flex Patch

▶ Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Use compresses if running water is not available. ▶ Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter or ointments; this may cause infection. ▶ Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) ▶ Cool the burn by immerse in cold running water for 10-15 minutes. ▶ Use compresses if running water is not available. Do NOT apply ice as this may lower body temperature and cause further damage. Do NOT break blisters or apply butter or ointments; this may cause infection. ▶ Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lay the person flat. Elevate feet about 12 inches. Elevate burn area above heart level, if possible. Cover the person with coat or blanket. Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the mean time: Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burned toes and fingers with dry, sterile dressings. Do not soak burn in water or apply ointments or butter; this may cause infection. To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway. Have a person with a facial burn sit up. ▶ Check pulse and breathing to monitor for shock until emergency help arrives. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary. Immediately give a glass of water. Ingestion First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
- Foam.
- Dry chemical powder.
- ► BCF (where regulations permit).

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
5.3. Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses.
Fire/Explosion Hazard	 Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions). Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.

Foaming may cause overflow of containers and may result in possible fire.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

 Version No: 1.3
 Page 4 of 12
 Issue Date: 10/26/2023

 Print Date: 10/26/2023
 Print Date: 10/26/2023

FiberFix® Flex Patch

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety glasses.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment and dust respirator.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling	 The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.) It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves, overalls and safety boots) as protection from thermal burns. Fumes or vapours emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions) Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices.
Fire and explosion protection	See section 5
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. For frits: Avoid storage with hydrogen fluoride/ hydrofluoric acid, oxygen difluoride, manganese trifluoride, fluorine and other fluorine containing compounds, manganese trioxide, chlorates, chlorine trifluoride, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid or vinyl acetate. Avoid reaction with oxidising agents
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
paraffin oils	Inhalation 5 mg/m³ (Systemic, Chronic) Inhalation 5 mg/m³ (Local, Chronic) Inhalation 5 mg/m³ (Systemic, Acute) Inhalation 5 mg/m³ (Local, Acute)	Not Available

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Version No: 1.3 Page **5** of **12** Issue Date: 10/26/2023 Print Date: 10/26/2023

FiberFix® Flex Patch

Ingredient	TEEL-1	TEEL-2		TEEL-3
glass, oxide	15 mg/m3	170 mg/m3		990 mg/m3
paraffin oils	140 mg/m3	1,500 mg/m3		8,900 mg/m3
Ingredient	Original IDLH		Revised IDLH	
glass, oxide	Not Available		Not Available	
styrene/ butadiene copolymer	Not Available		Not Available	
polyethylene terephthalate	Not Available		Not Available	
glassine paper	Not Available		Not Available	
hydrocarbon resin, postpolymerised with maleic anhydride	Not Available		Not Available	
paraffin oils	2,500 mg/m3		Not Available	

8.2. Exposure controls	
8.2.1. Appropriate engineering controls	For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material. Keep dry!! Processing temperatures may be well above boiling point of water, so wet or damp material may cause a serious steam explosion if used in unvented equipment. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
8.2.2. Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. • polychloroprene. • nitrile rubber.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: Overalls. Barrier cream.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- · Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

 Version No: 1.3
 Page 6 of 12
 Issue Date: 10/26/2023

 Print Date: 10/26/2023
 Print Date: 10/26/2023

FiberFix® Flex Patch

Appearance	Yellow thin slice flaky solid		
Physical state	Solid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	>150	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on toxicological effects

11.1. Information on toxicologi	ICAI ETTECTS
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Molten material is capable of causing burns. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

 Version No: 1.3
 Page 7 of 12
 Issue Date: 10/26/2023

 Print Date: 10/26/2023
 Print Date: 10/26/2023

FiberFix® Flex Patch

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort Eye characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal Chronic models); nevertheless exposure by all routes should be minimised as a matter of course. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. TOXICITY IRRITATION FiberFix® Flex Patch Not Available Not Available TOXICITY IRRITATION glass, oxide Not Available Not Available TOXICITY IRRITATION Eye (rabbit) 500: mg/24h -Dermal (rabbit) LD50: >20000 mg/kg^[2] styrene/ butadiene copolymer Oral (Rat) LD50: 71000 mg/kg^[2] Eve: Mild TOXICITY IRRITATION polyethylene terephthalate Oral (Rat) LD50: >5000 mg/kg[2] Not Available IRRITATION TOXICITY glassine paper Not Available Not Available hydrocarbon resin, TOXICITY IRRITATION postpolymerised with maleic Oral (Rat) LD50: >2000 mg/kg[1] Not Available anhydride TOXICITY IRRITATION Eye (rabbit): 500 mg moderate Inhalation(Rat) LC50: 2062 ppm4h^[2] paraffin oils Skin (rabbit): 100 mg/24h mild Oral (Mouse) LD50; 22000 mg/kg^[2] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances A similar spherical glass powder was nontoxic to rats at 5,000 mg/kg. All animals survived, gained weight and appeared active and healthy. There were no signs of gross toxicity, adverse pharmacologic effects or abnormal behavior. There are no known reports of subchronic toxicity of GLASS, OXIDE nonfibrous glass. There are no known reports of carcinogenicity of nonfibrous glass When tested for primary irritation potential, a similar material caused minimal irritation to eyes and was non-irritating to skin. Dust in excess of recommended exposure limits may result in irritation to the respiratory tract The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. STYRENE/ BUTADIENE The substance is classified by IARC as Group 3: COPOLYMER NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing For polyethylene terephthalate (PET polyesters) and its derivatives No adverse effects described in animals from short exposures by inhalation, ingestion or skin contact. Animal testing indicates that this compound does not have carcinogenic mutagenic, embryotoxic, nor reproductive effects **POLYETHYLENE** TEREPHTHALATE Acetaldehyde forms by degradation of PET through the mishandling of the material. At high temperatures, (PET decomposes above 300 C or 570 F), high pressures, extruder speeds (excessive shear flow raises temperature) and long barrel residence times all contribute to the production of acetaldehyde. HYDROCARBON RESIN, POSTPOLYMERISED WITH Oral (-) LD50: 7000-10000 mg/kg Nil reported. [Manufacturer] MALEIC ANHYDRIDE Equivocal tumorigen by RTECS criteria Paraffin oil (boiling in the kerosene boiling range) can pose certain health hazards, especially if it is inhaled or ingested and also due to repeated PARAFFIN OILS or prolonged skin exposure. Inhalation of paraffin oil can irritate the respiratory tract, and cause cough, shortness of breath, and occasionally, lead to hydrocarbon pneumonitis. On the other hand, prolonged skin exposure to this oil can cause skin irritation, which can lead to contact dermatitis, especially in individuals who already have skin disorders or diseases. The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: • The adverse effects of these materials are associated with undesirable components, and • The levels of the undesirable components are inversely related to the degree of processing; FiberFix® Flex Patch & • Distillate base oils receiving the same degree or extent of processing will have similar toxicities; PARAFFIN OILS • The potential toxicity of residual base oils is independent of the degree of processing the oil receives. • The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils

Version No: 1.3 Page 8 of 12 Issue Date: 10/26/2023

FiberFix® Flex Patch

are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. **GLASS. OXIDE & POLYETHYLENE** No significant acute toxicological data identified in literature search. TEREPHTHALATE Carcinogenicity **Acute Toxicity** × Skin Irritation/Corrosion Reproductivity Serious Eye Damage/Irritation × STOT - Single Exposure Respiratory or Skin × × STOT - Repeated Exposure sensitisation Mutagenicity **Aspiration Hazard**

Legend:

X - Data either not available or does not fill the criteria for classification - Data available to make classification

Print Date: 10/26/2023

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

I. Toxicity							
	Endpoint	Test Duration (hr)		Species	Value	s	ource
FiberFix® Flex Patch	Not Available	Not Available		Not Available	Not Available	N	ot Available
	Endpoint	Test Duration (hr)	Speci	es		Value	Source
alaaa ayida	EC50	72h	Algae	or other aquatic plan	nts	>1000mg/l	2
glass, oxide	LC50	96h	Fish			>1000mg/l	2
	NOEC(ECx)	72h	Crusta	acea		>=1000mg/l	2
	Endpoint	Test Duration (hr)		Species	Value	s	ource
tyrene/ butadiene copolymer	Not Available	Not Available		Not Available	Not Available	N	ot Available
	Endpoint	Test Duration (hr)		Species	Value	s	ource
polyethylene terephthalate	Not Available	Not Available		Not Available	Not Available	N	ot Available
	Endpoint	Test Duration (hr)		Species	Value	s	ource
glassine paper	Not Available	Not Available		Not Available	Not Available	N	ot Available
	Endpoint	Test Duration (hr)	Spe	cies		Value	Source
hydrocarbon resin,	EC50	72h	Alga	e or other aquatic pla	ants	>100mg/l	2
postpolymerised with maleic anhydride	EC50	48h	Crus	stacea		>100mg/l	2
ŕ	NOEC(ECx)	72h	Alga	e or other aquatic pla	ants	<1mg/l	2
	Endpoint	Test Duration (hr)		Species	Value		Source
	EC50	48h		Crustacea	0.016-0.027mg	/L	4
paraffin oils	EC50(ECx)	48h		Crustacea	0.016-0.027mg	/L	4
	LC50	96h		Fish	>100mg/L		4

Version No: **1.3** Page **9** of **12** Issue Date: **10/26/2023**

FiberFix® Flex Patch

Print Date: 10/26/2023

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 8. Vendor Data

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	X	×
PBT Criteria fulfilled?			No
vPvB	No		

12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

12.7. Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal	DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO	
HAZCHEM	Not Applicable	

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable							
14.2. UN proper shipping name	Not Applicable							
14.3. Transport hazard class(es)	Class Not Applicable Subsidiary Hazard Not Applicable							
14.4. Packing group	Not Applicable							
14.5. Environmental hazard	Not Applicable							
14.6. Special precautions for user	Hazard identification (Kemler) Classification code Hazard Label Special provisions Limited quantity		Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable					

 Version No: 1.3
 Page 10 of 12
 Issue Date: 10/26/2023

 Print Date: 10/26/2023
 Print Date: 10/26/2023

FiberFix® Flex Patch

Tunnel Restriction Code Not Applicable Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. UN proper shipping Not Applicable name ICAO/IATA Class Not Applicable 14.3. Transport hazard ICAO / IATA Subsidiary Hazard Not Applicable class(es) ERG Code Not Applicable 14.4. Packing group Not Applicable 14.5. Environmental hazard Not Applicable Special provisions Not Applicable Cargo Only Packing Instructions Not Applicable Cargo Only Maximum Qty / Pack Not Applicable 14.6. Special precautions for Passenger and Cargo Packing Instructions Not Applicable user Passenger and Cargo Maximum Qty / Pack Not Applicable Passenger and Cargo Limited Quantity Packing Instructions Not Applicable Passenger and Cargo Limited Maximum Qty / Pack Not Applicable Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. UN proper shipping Not Applicable name IMDG Class Not Applicable 14.3. Transport hazard class(es) IMDG Subsidiary Hazard Not Applicable 14.4. Packing group Not Applicable 14.5 Environmental hazard Not Applicable Not Applicable **EMS Number** 14.6. Special precautions for Special provisions Not Applicable user Limited Quantities Not Applicable Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1. UN number Not Applicable 14.2. UN proper shipping Not Applicable name 14.3. Transport hazard Not Applicable Not Applicable class(es) 14.4. Packing group Not Applicable 14.5. Environmental hazard Not Applicable Classification code Not Applicable

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

user

14.6. Special precautions for

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Special provisions

Equipment required
Fire cones number

Limited quantity

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Product name	Group
glass, oxide	Not Available
styrene/ butadiene copolymer	Not Available
polyethylene terephthalate	Not Available
glassine paper	Not Available
hydrocarbon resin, postpolymerised with maleic anhydride	Not Available
paraffin oils	Not Available

Version No: **1.3** Page **11** of **12** Issue Date: **10/26/2023**

FiberFix® Flex Patch

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
glass, oxide	Not Available
styrene/ butadiene copolymer	Not Available
polyethylene terephthalate	Not Available
glassine paper	Not Available
hydrocarbon resin, postpolymerised with maleic anhydride	Not Available
paraffin oils	Not Available

SECTION 15 Regulatory information

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

glass, oxide is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Print Date: 10/26/2023

styrene/ butadiene copolymer is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

polyethylene terephthalate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

glassine paper is found on the following regulatory lists

Not Applicable

hydrocarbon resin, postpolymerised with maleic anhydride is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

paraffin oils is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

National Inventory Status

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	Yes			
Canada - DSL	Yes			
Canada - NDSL	No (glass, oxide; styrene/ butadiene copolymer; polyethylene terephthalate; hydrocarbon resin, postpolymerised with maleic anhydride; paraffin oils)			
China - IECSC	Yes			
Europe - EINEC / ELINCS / NLP	No (styrene/ butadiene copolymer; polyethylene terephthalate)			
Japan - ENCS	No (glass, oxide)			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	Yes			
Vietnam - NCI	Yes			
Russia - FBEPH	Yes			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.			

SECTION 16 Other information

Revision Date 10/26/2023

 Version No: 1.3
 Page 12 of 12
 Issue Date: 10/26/2023

 Print Date: 10/26/2023
 Print Date: 10/26/2023

FiberFix® Flex Patch

Initial Date 10/27/2023

Full text Risk and Hazard codes

SDS Version Summary

Version	Date of Update	Sections Updated
0.3	10/25/2023	Hazards identification - Classification

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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