according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: Impu-Fix ribbon conductor bonding agent					
Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 1/(15)		
	(Manufacturer) - / -	Date of revision:			

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

- 1.1. Product identifier: **Impu-Fix ribbon conductor bonding agent** UFI: V285-MF8Q-E426-PFRX Article number: 2341018
- Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: Adhesive. Consumer use. Uses advised against: application other than the above.
- 1.3. Details of the supplier of the safety data sheet:

Distributor Details: OBO Bettermann Produktion Deutschland GmbH & Co. KG Hüingser Ring 52, 58710 Menden (Sauerland), Germany Tel.: +49 2373 890 Fax: +49 2373 89238 E-mail: info@obo.de

Responsible for SDS: OBO Bettermann Produktion Deutschland GmbH & Co. KG Hüingser Ring 52, 58710 Menden (Sauerland), Germany Tel.: +49 2373 890 Fax: +49 2373 89238 E-mail: info@obo.de

1.4. Emergency telephone number REACH Registration of Chemicals GmbH Tel.: +49 (0)700 24112112 (OBO) Tel.: +1 872 5888271 (OBO)

SECTION 2: Hazards identification

. .

- - - - -

- .

2.1.	Classification of the substance or	mixture		
	Hazard Class and Category:	Hazard statement:		
	Flam. Liq. 2	H225	Highly flammable liquid and vapour.	
	Skin Irrit. 2	H315	Causes skin irritation.	
	Eye Irrit. 2	H319	Causes serious eye irritation.	
	STOT SE 3	H336	May cause drowsiness or dizziness.	
	Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.	



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Tra	de name:	Impu-Fix	ribbon condu	ictor bonding agent	
Ver	sion: 1	Date of issue/L	atest revision:	Date of issue: 02. 06. 2023	Page: 2/(15)
		(Manufacturer)	- / -	Date of revision:	
2.2.	Label eler	nents			
	Product ic	lentification:	Trade name:	Impu-Fix ribbon conductor bon	ding agent
	Hazardou	s components:	Hydrocarbons Butanone; Eth	, C6-C7, n-alkanes, isoalkanes, cycl yl acetate.	ics, >5%; n-hexane;
	GHS Picto	ogram:			
	Signal wo	rd:	Dar	nger	
	Hazard sta H225 H315 H319 H336 H411	Highly fl Causes s Causes s May cau	ammable liquid kin irritation. erious eye irritat se drowsiness or aquatic life with	ion.	
	Supplemental hazard information EUH208 Contains Rosin (reaction.			ony) and Dodecane-1-thiol. May p	roduce an allergic
	Precaution P101	nary statements If medica		ed, have product container or label	at hand.
	Precaution P210	-		hot surfaces, sparks, open flames	and other ignition
	P233 P261 P271 P273	Keep con Avoid br Use only	ntainer tightly cl eathing mist, va	pours. a well-ventilated area.	
	P280		tective gloves, o		
	Precaution P370 + P 3 P391	nary statements	– Response: f fire: Use foam	or dry chemical powder to extingu	ish.
		nary statements			
	P405	Store loc	-		

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent

Version: 1Date of issue/Latest revision:
(Manufacturer) - / -Date of issue: 02. 06. 2023
Date of revision:Page: 3/(15)

Precautionary statements – Disposal:**P501**Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:
Tactile warning of danger:
Child-resistant fastening:Required for retail distribution.
Not required.Transport classification: see section 14.

2.3. Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more.

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, >5% n-hexane REACH Registr. Nr.: 01-2119475514-35	921-024-6	-	Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Aquatic Chronic 2	H225 H304 H315 H336 H411	≥25 - <30
Butanone REACH Registr. Nr.: 01-2119457290-43	201-159-0	78-93-3	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336 EUH066	≥20 - <30
Ethyl acetate* REACH Registr. Nr.: 01-2119475103-46	205-500-4	141-78-6	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336 EUH066	≥10 - <20
Rosin (colophony) REACH Registr. Nr.: 01-2119480418-32	232-475-7	8050-09-7	Skin Sens. 1 Aquatic Chronic 2	H317 H411	0,25 - <1

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent

Page: 4/(15)

Version: 1 Date of issue/Latest revision: (Manufacturer) - / -

Date of issue: 02. 06. 2023 Date of revision:

Name	EC	CAS	Hazard classes and	Hazard	Conc.
Inallie	number	number	cat.	statements	% (m/m)
n-Hexane*,**	203-777-6	110-54-3	Flam. Liq. 2	H225	0,25 - <1
REACH Registr. Nr.:			Asp. Tox. 1	H304	
01-2119480412-44			Eye Irrit. 2	H315	
			STOT SE 3	H336	
			Repr. 2	H361f	
			STOT RE 2	H373	
			Aquatic Chronic 2	H411	
Zinc oxide*	215-222-5	1314-13-2	Aquatic Acute 1	H400 (M=1)	0,25 - <1
REACH Registr. Nr.:			Aquatic Chronic 1	H410 (M=1)	
01-2119463881-32					
2,6-di-tert-butyl-p-cresol	204-881-4	128-37-0	Aquatic Acute 1	H400 (M=1)	0,1 - <0,25
REACH Registr. Nr.:			Aquatic Chronic 1	H410 (M=1)	
01-2119565113-46					
Dodecane-1-thiol	203-984-1	112-55-0	Skin Corr. 1C	H314	<0,1
REACH Registr. Nr.:			Skin Sens. 1A	H317	
no data			Eye Dam. 1	H318	
			Aquatic Acute 1	H400 (M=10)	
			Aquatic Chronic 1	H410 (M=10)	

*: with exposure limit

**Specific concentration limit: STOT RE 2; H373: C \geq 5 %

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

- Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention. If necessary perform the artifical respiration. If unconscious, place in recovery position.
- Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. Do not use solvents! In case of persistent irritation, get medical attention.
- Eye contact: Flush eyes with plenty of water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of persistent irritation, get medical attention.
- Ingestion: DO NOT induce vomiting. Rinse mouth thoroughly with water and give the injured person some water to drink. Get prompt medical attention.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name:Impu-Fix ribbon conductor bonding agentVersion: 1Date of issue/Latest revision:Date of issue: 02.06.2023Page: 5/(15)(Manufacturer) - / -Date of revision:Date of revision:

Protection of first-aid person: No individual specifications.

- 4.2. Most important symptoms and effects, both acute and delayed Symptoms may even occur after several hours. May produce an allergic reaction. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
- 4.3. Indication of any immediate medical attention and special treatment needed In cases of doubt or in case of feeling unwell, consult a doctor.

SECTION 5: Fire-fighting measures

5.1. Extinguishing mediaSuitable extinguishing media: Carbon dioxide, foam, dry chemical powder, water spray.

Unsuitable extinguishing media: Full water jet.

5.2. Special hazards arising from the substance or mixture Hazardous combustion products: On burning, carbon dioxide, carbon monoxide and other toxic fumes / gases can be formed.

5.3. Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

Vapours can form flammable/explosive vapour-air mixtures.

Collect contaminated fire-fighting water separately. It must not enter the sewage system. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Personal precautions: see Section 8.
Keep persons not involved in rescue at a distance. Sufficient ventilation should be provided.
Keep away from sources of ignition – No smoking.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent					
Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 6/(15)		
	(Manufacturer) - / -	Date of revision:			

6.2. Environmental precautions: Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

- 6.3. Methods and material for containment and cleaning up
 - On soil: Confine spills to prevent material from entering sewers, watercourses, drains and into soil.

All kind of ignition sources should be removed. Recover free liquid by pumping. Contain the rest or small quantities with non-combustible liquidabsorbent material (sand, silica gel, acid binder, universal liquid binder). Place in properly labelled closed container. Dispose of according to local regulations. The contaminated area must be cleaned up immediately.

6.4. Reference to other sections Personal precautions: see section 8. Waste treatment methods: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids. Adequate ventilation must be provided.

Keep away from radiant heat and open flame.

- Avoid dust and aerosol formation.
- Use explosion-proof equipment.
- Avoid to accumulate electrostatic charge.

A conductive floor is required in the storage room. The storage tank must not be emptied under pressure.

Vapours can form flammable/explosive vapour-air mixtures.

Avoid contact with skin and eyes. Avoid prolonged breathing of vapours.

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: no data.

7.2. Conditions for safe storage, including any incompatibilities Storage facilities must comply with regulations for storing of flammable liquids. Store in dry, cool well-ventilated place in original, closed containers.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent

Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 7/(15)
	(Manufacturer) - / -	Date of revision:	

Keep away from direct sunshine, direct heat or ignition sources, from strong acids, strong alkalis and oxidizing agents. Keep away from food, drink and feed. Keep out of reach of children.

Storage temperature: no data.

7.3. Specific end use(s) Adhesive.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters:

Substance	CAS number	Occupational Exposure Limit Value (8-hour reference period)		Expo Value	eupational sure Limit (15-minute ence period)	Notes
		ppm	mg/m ³	ppm	mg/m ³	
Methyl ethyl ketone (MEK)	78-93-3	200	600	300	900	Sk, IOELV
Ethyl acetate	141-78-6	200	734	400	1468	IOELV
n-Hexane	110-54-3	20	72	-	-	IOELV, Sk
2,6-Ditertiary-butyl- para-cresol	128-37-0	-	2		-	-

8.2. Exposure controls

Engineering control measures:

Adequate ventilation (general or local exhaust, explosion-proof).

Personal protection:

(a) Eye/face protection
(b) Skin protection
(i) Hand protection
(ii) Hand protection
(iii) Chemical resistant gloves (EN 374)
For prolonged contact: gloves with strong mechanical protection.
Breakthrough time: 480 min.
For short-term contact:
Material: butyl. Breakthrough time 15 min., Layer thickness: 0,7 mm.
Material: nitril. Layer thickness: 0,12 mm.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent					
Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 8/(15)		
	(Manufacturer) - / -	Date of revision:			

	(c)	(ii) Other Respiratory protection	application should be observe Protective clothing. Under normal conditions no	ons for use and the conditions of ed. t required. In case of exceeded protection with particle-filter is		
	(d)	Thermal hazards	No data.			
SEC	Environmental exposure controls: Do not discharge into drains/surface waters/groundwater. SECTION 9: Physical and chemical properties					
9.1.	Inf	ormation on basic physical	and chemical properties			
	a)	Physical state:	-	liquid		
	b)	Colour:		brown		
	c)	Odour:		not available		
	d)	Melting point/freezing po	· · · ·	not available		
	e)	01	oiling point and boiling range:	77°C		
	f)	Flammability:		Highly flammable liquid and		

- Flammability: f)
- **a**) Lower and upper explosion limit.

g)	Lower and upper explosion limit:	Non-explosive, but the formation of an explosive gas/vapour/air
h)	Flash point:	mixture is possible. -19°C
i)	Auto-ignition temperature:	not available
j)	Decomposition temperature:	not available
k)	pH:	not available
l)	Kinematic viscosity	not available
-)	at 40°C:	$> 20,5 \text{ mm}^2/\text{s}$
	at 100°C:	not available
m)	Solubility	
,	Solubility in water:	not soluble, or only slightly soluble in water
	Solubility in other solvents:	not available
n)	Partition coefficient n-octanol/water (log value):	not available
o)	Vapour pressure at 20°C:	160 hPa
p)	Density and/or relative density:	0.875 g/cm ³

vapour.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent

Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 9/(15)
	(Manufacturer) - / -	Date of revision:	

	q) Relative vapour density:r) Particle characteristics:	not available not available
9.2.	Other information	
	not available	

SECTION 10: Stability and reactivity

Dangerous reactivity not known.
No decomposition if stored and handled properly.
It emits highly flammable vapours.
Heating, ignition source.
Acids, alkalis, strong oxidising agents.
No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

SECTION 11: Toxicological information

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

			e v	/
Acute toxicity:		Based on	available data	, the classification criteria are not met.
Components:				
Ethyl acetate (CAS	S: 141-78-6)			
Oral:	LD ₅₀ (rat))	5620	mg/kg
Dermal:	LD ₅₀ (rab	bit)	> 20000	mg/kg
Inhalation:	LC_{50} (rat))	22.5	mg/L (4 h)
n-Hexane (CAS: 1	10-54-3)			
Dermal:	LD50 (rab	bit)	3000	mg/kg
2,6-Di-tert-butyl-p	-cresol (CAS:	128-37-0)		
Oral:	LD ₅₀ (rat))	6000	mg/kg
Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Carcinogenicity:		Causes see Based on Based on	available data	ation. a, the classification criteria are not met. b, the classification criteria are not met. b, the classification criteria are not met.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor Version: 1 Date of issue/Latest revision: (Manufacturer) - / -	Date of issue: 02. 06. 2023Page: 10/(15)Date of revision:Date of revision:			
STOT-single exposure:May cSTOT-repeated exposure:BasedAspiration hazard:Based11.2. Information on other hazards	on available data, the classification criteria are not met. ause drowsiness or dizziness. on available data, the classification criteria are not met. on available data, the classification criteria are not met.			
SECTION 12: Ecological information				
12.1. Toxicity	Toxic to aquatic life with long lasting effects.			
Components: <i>Ethyl acetate (CAS: 141-78-6)</i> Fish (Pimephales promelas):	LC ₅₀ 220 - 250 mg/L (96 h) (flow test)			
Rosin (colophony) (CAS: 8050-09-7) Daphnia (Daphnia magna):	EC ₅₀ $3.8 - 5.4$ mg/L (48 h) (static test)			
<i>n-Hexane (CAS: 110-54-3)</i> Fish (Pimephales promelas):	LC ₅₀ $2.1 - 2.98$ mg/L (96 h) (flow test)			
2,6-Di-tert-butyl-p-cresol (CAS: 128-37- Fish (Oryzias latipes): Algae (Desmodesmus subspicatus):	$\begin{array}{ccc} LC_{50} & 5 & mg/L & (48 \text{ h}) \text{ (static test)} \\ EC_{50} & > 0.42 & mg/L & (72 \text{ h}) \text{ (flow test)} \end{array}$			
12.2. Persistence and degradability	No data for the product.			
12.3. Bioaccumulative potential	No data for the product.			
12.4. Mobility in soil Mobility in water	No data available. No data available.			
12.5. Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances, at a concentration of 0.1% or more.			
12.6. Endocrine disrupting properties	The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.			

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent

Version: 1Date of issue/Latest revision:
(Manufacturer) - / -Date of issue: 02. 06. 2023
Date of revision:Page: 11/(15)
Date

12.7. Other adverse effects Water hazard class (German): Large spills may be hazardous to the environment. WGK 2 (Classification by AwSV)

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
 - Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 08 04 09*

Waste adhesives and sealants containing organic solvents or other dangerous substances.

Waste Identification Code: 08 01 11*

Waste paint and varnish containing organic solvents or other dangerous substances.

Disposal must be in compliance with national and local regulations.

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 01 Paper and cardboard packaging.

Waste Identification Code: 15 01 02 Plastic packaging.

Waste Identification Code: 15 01 04 Metallic packaging.

Waste Identification Code: 15 01 10*

Packaging containing residues of or contaminated by dangerous substances.

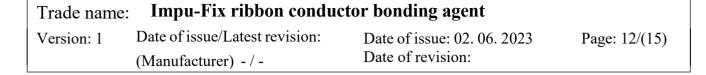
Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



SECTION 14: Transport information

Land transport:		
Road/ Railway	ADR/RID:	
14.1. UN number or ID number		1133
14.2. UN proper shipping name		ADHESIVES containing flammable
		liquid
		(Hydrocarbons, C6-C7, n-alkanes,
		isoalkanes, cyclics, >5% n-hexane)
14.3. Transport hazard class(es)		3
Classification code:		F1
14.4. Packing group		II
Labels:		3
14.5. Environmental hazards		dangerous for the environment
Marine pollutant		yes
14.6. Special precautions for user		
Limited quantities:		5L
Excepted quantities:		E2
Transport category:		2
Tunnel restriction code:		D/E
Hazard identification No.:		33
EmS:		F-E, S-D
14.7. Maritime transport in bulk acco	ording to IMO	
instruments	-	Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008. Seveso category: P5.c, E2.

15.2. Chemical safety assessment. not available



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent				
Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 13/(15)	
	(Manufacturer) - / -	Date of revision:		

SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

Flam. Liq. 2	H225	flashpoint test
Skin Irrit. 2.	H315	calculated
Eye Irrit. 2	H319	calculated
STOT SE 3	H336	calculated
Aquatic Chronic 3	H411	calculated

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure
	through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



Trade name: Impu-Fix ribbon conductor bonding agent				
Version: 1 Date of issue/Latest revision:		Date of issue: 02. 06. 2023	Page: 14/(15)	
	(Manufacturer) - / -	Date of revision:		

Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 2	Flammable liquid Category 2
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1; 1A	Respiratory/skin sensitization Category 1, 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Repr. 2	Reproductive toxicity Category 2
STOT RE 2	Specific target organ toxicity – repeated exposure Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2
Skin Sens. 1; 1A Eye Dam. 1 Eye Irrit. 2 STOT SE 3 Repr. 2 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	Respiratory/skin sensitization Category 1, 1A Serious eye damage/eye irritation Category 1 Serious eye damage/eye irritation Category 2 Specific target organ toxicity — single exposure Category 3 Reproductive toxicity Category 2 Specific target organ toxicity – repeated exposure Category 2 Hazardous to the aquatic environment, Acute Category 1 Hazardous to the aquatic environment, Chronic Category 1

Legend:

-	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ecx	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
	-

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



1

Trade name: Impu-Fix ribbon conductor bonding agent				
Version: 1	Date of issue/Latest revision:	Date of issue: 02. 06. 2023	Page: 15/(15)	
	(Manufacturer) - / -	Date of revision:		

IMDC	International Maritime Dangerous Goods			
LCx	Lethal Concentration x%			
LDx	Lethal Dose x%			
LOAE	EC Lowest Observed Adverse Effect Concentration			
LOAE	EL Lowest Observed Adverse Effect Level			
LOEC	Lowest Observed Effect Concentration	Lowest Observed Effect Concentration		
LOEL	Lowest Observed Effect Level	Lowest Observed Effect Level		
NOEC	No observed effect concentration	No observed effect concentration		
NOEI	No observed effect level	No observed effect level		
NLP	No-Longer Polymer	No-Longer Polymer		
NOAE		No Observed Adverse Effect Level		
OECI	Organisation for Economic Cooperation and Development	Organisation for Economic Cooperation and Development		
PBT	Persistent Bioaccumulative and Toxic			
PNEC	Predicted No-Effect Concentration	Predicted No-Effect Concentration		
ppm	parts/million	parts/million		
REAC	CH Registration, Evaluation, Authorisation and Restriction of Che	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Regulations concerning the International carriage of Dangerou	Regulations concerning the International carriage of Dangerous Goods by Rail		
SVHC	Substance of Very High Concern	Substance of Very High Concern		
UVCE	3 substance of unknown or variable composition, complex react materials	substance of unknown or variable composition, complex reaction products or biological materials		
VOC	Volatile organic compounds	Volatile organic compounds		
vPvB Very Persistent and very Bio-accumulative				
Revision Indicators:				
Section	Subject of change	Date	Version	
	•	•		