

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 1 of 13

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

HP-BEL21 / Adhesion Promoter

UFI: F2EH-3EXU-MYJH-H611

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

Polymer preparations and compounds

**Uses advised against**

Any use not mentioned in the product data sheet.

**1.3. Details of the supplier of the safety data sheet**

Company name:	HP-Textiles GmbH	
Street:	Otto-Hahn-Str. 22	
Place:	D-48480 Schapen	
Telephone:	+49 (0) 5905 94598-70	Telefax: +49 (0) 5905 94598-74
E-mail:	produktsicherheit@hp-textiles.com	
Contact person:	Safety department	
Internet:	www.hp-textiles.com	

**1.4. Emergency telephone number:**

+49 (0) 5905 945410-8 / Only available during office hours.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Eye Dam. 1; H318  
 Skin Sens. 1; H317  
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactive diluent)

Signal word: Danger

Pictograms:

**Hazard statements**

H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 2 of 13

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to hazardous waste.

**2.3. Other hazards**

Results of PBT and vPvB assessment  
not applicable

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	50 - 100 %
	219-784-2	
	01-2119513212-58	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412	
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactive diluent)	0 - 3 %
	241-536-7	
	603-094-00-7	
	01-2120759332-55	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
2530-83-8	219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	50 - 100 %
		oral: LD50 = 16900 mg/kg	
17557-23-2	241-536-7	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactive diluent)	0 - 3 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = ca. 3594,52 mg/kg	

**Further Information**

Note: This hazard characteristics refer to the properties of pure ingredients, for the identification of the mixture (product), see Section 2 and 16.

Product does not contain SVHC substances and no listed PBT substances.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids

# Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 3 of 13

apart and consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink 1 glass of water. Induce vomiting when the affected person is not unconscious. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

First Aid, decontamination, treatment of symptoms.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. Foam. Carbon dioxide. Extinguishing powder. Extinguishing blanket.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Fire class: B  
In case of fire and/or explosion do not breathe fumes.

### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation.

#### For non-emergency personnel

PSA / Wear personal protection equipment. (See section 8.)

#### For emergency responders

PSA / Wear personal protection equipment. (See section 8.)

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clear contaminated areas thoroughly. Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Safe handling: see section 7

# Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 4 of 13

Personal protection equipment: see section 8

Disposal: see section 13 See protective measures under point 7 and 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. (See section 8.)

##### **Advice on protection against fire and explosion**

Usual measures for fire prevention.

##### **Advice on general occupational hygiene**

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Remove contaminated clothing immediately and dispose off safely.

##### **Further information on handling**

Avoid contact with skin, eyes and clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

##### **Hints on joint storage**

Do not store together with: Oxidizing solids. Oxidizing liquids. Explosives. Food and fodder

##### **Further information on storage conditions**

Protect against: frost. UV-radiation/sunlight. Cold heat. Cold Humidity

#### 7.3. Specific end use(s)

Polymer preparations and compounds

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 5 of 13

## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane			
Worker DNEL, long-term		inhalation	systemic	70,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	17 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	26400 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactive diluent)			
Worker DNEL, long-term		inhalation	systemic	12,1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3,43 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,13 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,23 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,23 mg/kg bw/day

## PNEC values

CAS No	Substance	Value
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	
Environmental compartment		
Freshwater		0,45 mg/l
Freshwater (intermittent releases)		0,45 mg/l
Marine water		0,045 mg/l
Freshwater sediment		1,6 mg/kg
Marine sediment		0,16 mg/kg
Microorganisms in sewage treatment plants (STP)		8,2 mg/l
Soil		0,063 mg/kg
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactive diluent)	
Freshwater		0,00749 mg/l
Freshwater (intermittent releases)		0,0749 mg/l
Marine water		0,000749 mg/l
Freshwater sediment		39,5 mg/kg
Marine sediment		0,00395 mg/kg
Soil		0,0035 mg/kg

## Additional advice on limit values

To date, no national critical limit values exist.

Other information: DNEL - worker = 8,3 mg/kg

## 8.2. Exposure controls



## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 6 of 13

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: Suitable eye protection: Tightly sealed safety glasses. BS/EN 166 / EN ISO 16321

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material:

NBR (Nitrile rubber). (> 0,5 mm)

FKM (fluororubber). (> 0,5 mm)

PVC (Polyvinyl chloride). (0,5 mm)

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Use of protective clothing. Suitable protective clothing: Lab apron.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:

Generation/formation of dust

Suitable respiratory protective equipment:

Combination filtering device (EN 14387) Type: A-P2/P3

**Thermal hazards**

Not known

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	slightly yellowish
Odour:	characteristic

**Test method**

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	>200 °C
Flammability:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	>120 °C
Auto-ignition temperature:	300 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	unlöslich
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined OECD (TG) 117

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 7 of 13

Vapour pressure: (at 20 °C)	0,6 hPa
Density (at 20 °C):	1,05 - 1,08 g/cm <sup>3</sup>
Relative vapour density:	not determined
Particle characteristics:	not determined

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

none

Sustained combustibility:

No data available

Oxidizing properties

The product is not: oxidising.

**Other safety characteristics**

Evaporation rate:

not determined DIN 53170

Solid content:

100 %

Sublimation point:

not determined

Softening point:

not determined

Pour point:

not determined

Viscosity / dynamic:

1 - 15 mPa·s IS

(at 25 °C)

Flow time:

not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Unstabilized product can polymerize spontaneously. Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

**10.4. Conditions to avoid**

Keep away from heat.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Strong acid. amines. Alkalis (alkalis), concentrated.

Radical former, Peroxides, Reducing agent

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).**SECTION 11: Toxicological information****11.1. Information on hazard classes****Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 8 of 13

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane				
	oral	LD50 16900 mg/kg	Rat	Study report (1978)	OECD Guideline 401
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactivediluent)				
	oral	LD50 ca. 3594,52 mg/kg	Rat	Study report (2017)	QSAR
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2017)	OECD Guideline 402

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

May cause an allergic skin reaction. (1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactivediluent))

Respiratory or skin sensitisation:

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

The statement is derived from the properties of the single components.

There is Evidence for: In-vitro mutagenicity

No evidence for: Carcinogenicity

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700):

Subchronic dermal toxicity: NOAEL = 10 mg/kg (90d) Rat

Subchronic oral toxicity: NOAEL = 50 mg/kg (90d) Rat

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information****12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 9 of 13

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane					
	Acute fish toxicity	LC50 55 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	EU Method C.1
	Acute algae toxicity	ErC50 350 mg/l	96 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 324 mg/l	48 h	Simocephalus vetulus	REACH Registration Dossier	USEPA. 1975. Methods for Acute Toxicity
	Crustacea toxicity	NOEC >= 100 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 100 mg/l ( )	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactivediluent)					
	Acute fish toxicity	LC50 > 7,6 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 ca. 7,488 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 ca. 9,51 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202

**12.2. Persistence and degradability**

Product is not easily biodegradable.

**12.3. Bioaccumulative potential**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700): BCF 31 (calc.)

Bioaccumulation is not anticipated since this material is hydrolytically unstable.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	0,5
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane (Reactivediluent)	ca. 0,47

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700):

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 10 of 13

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Observe in addition any national regulations!

**List of Wastes Code - residues/unused products**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

200127 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); paint, inks, adhesives and resins containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.  
 Segregation group: 1 - acids

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 11 of 13

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions: 0 %

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 12 of 13

**Abbreviations and acronyms**

Skin Irrit. 2: Skin irritation, hazard category 2  
 Eye Dam. 1: Serious eye damage, hazard category 1  
 Eye Irrit. 2: Eye irritation, hazard category 2  
 Skin Sens. 1: Skin sensitisation, hazard category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 OSHA: Occupational Safety and Health Administration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NOAEL: No observed adverse effect level  
 LOAEL: Lowest observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 LOAEC: Lowest observed adverse effect concentration  
 DNEL: Derived No Effect Level  
 PNEC: predicted no effect concentration  
 TSCA: Toxic Substances Control Act  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 NTP: National Toxicology Program  
 SARA: Superfund Amendments and Reauthorization Act  
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 PBT: Persistent bioaccumulative toxic  
 SVHC: substance of very high concern  
 CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation)

## Safety Data Sheet

## HP-BEL21 / Adhesion Promoter

Revision: 04.03.2026

Product code: 566

Page 13 of 13

intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Classification for mixtures and used evaluation method**

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*