

## Datenblatt

## BrakeStopFlam-Harnstoff



IMO Resolution MSC.307 (88) - FTP-Code 2010 Part 5

Schwerentflammbar

Technische Daten	Wert / Informationen			
Warenname	BrakeStopFlam-Harnstoff			
Art der Bindung	Lüfthärtend			
Rohdichte	Ca. +/- 600 kg/m³			
Erhärtungszeit	20°C	30°C	40°C	100°C
	4h	1h	20 min	25s
Vorbereitung/ Mischung	30% Harnstoff (A)		30% Melanin (B)	
	5% BrakestopFlam-Rt 100 (C)		32-40% Wasser	
	Toleranzbereich: +/- 3%			
Farbe	hell beige			
Zusatzstoff	BrakeStopFlam F-Flammschutzmittel 100%			
Leimauftrag	Furnier 140 g/m²		Plywood 240g/m² - max 320g/m²	
	Stabplatte 180 g/m²			
Chemische Charakterisierung	DIN EN 314 Class 4			
	Urea - Melanin			
Betriebsdauer	At 20°C 8 Stunden		At 30°C 3 Stunden	
PH Wert einer Masse	5-6 (DIN ISO 976)			
Verpackung	Eimer			
Lieferbedingung	Betriebsbereit			
Lagerung	20°C – 12 Monaten		30°C – 6 monaten	
	Schützt vom Kälte , in eine trockene und kühles Ort lagern			
Entwicklung	Roller and Spatula			
Materialverbrauch	Ca. 140 to 240 g/m² nach Trägermaterial max 320g/m²			
Brandverhalten	IMO Resolution 307(88) 2010 FTP Code Part 5			
Steuerrad-zulassung	Module B BG.V 118458-00			
	Module D DNVGL MED00000KH			
Zeugnis	EPH ST-17-09-20-02			
HS Code N°	35069190			

# PRÜFUNGSZEUGNIS

ST-17-09-20-02

**Produkt:** BrakeStopFlam-Harnstoff (Klebstoff)  
**Product:** BrakeStopFlam-Urea(Adhesive)  
**Hersteller:** Patrick Leleu Furnier GmbH, Eichertstraße 14, 76456 Kuppenheim  
**Manufacturer:** Deutschland / Germany  
**Auftrag:** Prüfung auf Oberflächen-Entflammbarkeit gemäß IMO Res. MSC. 307(88)  
**Order:** FTP Code 2010, Anlage 1, Teil 5  
Test for surface flammability acc. to IMO Res. MSC. 307(88) FTP Code 2010, Annex 1, Part 5

**Prüfbericht / Test report:** 2717499

**Prüfergebnisse:**  
**Test results:**

Parameter / Parameter		Prüfergebnis / Test result (n = 3)
Kritischer Wärmefluss beim Verlöschen Critical flux at extinguishment	CFE [kW/m <sup>2</sup> ]	≥ 50,0
Wärme für anhaltendes Brennen Heat of sustained burning	Q <sub>sb</sub> [MJ/m <sup>2</sup> ]	n. d.
Freigesetzte Gesamtwärmemenge Total heat release	Q <sub>t</sub> [MJ]	0,013
Maximale Wärmefreisetzungsrate Peak heat release	Q <sub>p</sub> [kW]	0,13
Brennende Tropfen / Burning droplets		Nicht erzeugt / Not produced

n ... Anzahl der Prüfungen (Mittelwert) / Number of tests (Mean value) n. d. ... nicht definiert / not defined

**Bewertung:**  
**Assessment:**  
Das o.g. Produkt hat sowohl die Anforderungen zur Oberflächen-Entflammbarkeit gemäß IMO Res. MSC. 307(88) FTP Code 2010, Anlage 1, Teil 5 für den Einsatz als Klebstoff im Schiffsbau erfüllt als auch die Anforderungen für die Befreiung von zusätzlichen Prüfungen der Rauchdichte und Toxizität gemäß IMO Resolution MSC. 307 (88) FTP Code 2010, Anlage 1, Teil 5, Anhang 4, Absatz 2.7.  
The above mentioned product has fulfilled the surface flammability requirements acc. to IMO Res. MSC. 307 (88) FTP Code 2010, Annex 1, Part 5 for application as adhesive material for marine construction. The requirements acc. to IMO Res. MSC. 307 (88) FTP Code 2010, Annex 1, Part 5, Annex 4, article 2.7 concerning the exemption for additional testing of smoke density and toxicity were also fulfilled.

Dresden, 20.09.2017



*R. Gassner*

Leiter des Prüflaboratoriums

*R. Pilsa*

verantwortlicher Bearbeiter





Europäisch notifizierte Stelle  
Kennnummer 0736  
European notified body  
Identification number 0736



**DGUV Test**

Prüf- und Zertifizierungsstelle  
BG Verkehr  
Dienststelle Schiffssicherheit

## EG-Baumusterprüfbescheinigung (Modul B) EC-Type Examination (Module B) Certificate

**Zulassungs-Nr.**  
Certificate No.

**118458-00**

Hersteller (Antragsteller)  
Manufacturer (Applicant)

Patrick Leleu Furnier GmbH

Adresse  
Address

Eichetstrasse 14  
76456 Kuppenheim (Deutschland / Germany)

Ausrüstung  
(Nummer & Bezeichnung)  
Equipment  
(Number & Item designation)

MED/3.18e

Oberflächenwerkstoffe und Bodenbeläge mit geringem Brand-  
ausbreitungsvermögen (beim Bau von Trennflächen vom Typ  
"A", "B" und "C" verwendete Klebstoffe)  
Surface materials and floor coverings with low flame-spread characteristics  
(adhesives used in the construction of "A", "B" & "C" class divisions)

Produkttyp  
Product Type

BrakeStopFlam - Harnstoff

Produkteinschränkung  
Product Restriction

n/a  
n/a

Prüfgrundlage  
Specified Standard

IMO-Entschießung MSC.307(88)-(FTP-Code 2010) Anlage 1, Teil 5  
IMO Resolution MSC.307 (88)-(FTP-Code 2010) Annex 1, Part 5

Die auf den folgenden Seiten aufgeführten Bedingungen sind Bestandteil dieses Zertifikats.

Diese Baumusterprüfbescheinigung gilt, solange sie nicht entzogen oder widerrufen wird und die Gegenstände unverändert, einsatzfähig eingesetzt werden.

The listed conditions on following pages are part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions on following pages are complied with and the equipment remains satisfactory in service.

On this certificate the German text shall prevail.

Hiermit wird bestätigt, dass:

This is to certify that:

Die BG Verkehr - Dienststelle Schiffssicherheit die entsprechenden EG-Bauartzulassungsverfahren zur Bewertung angewendet hat und das genannte Baumuster den einschlägigen Brandschutz-Bestimmungen der Richtlinie 2014/90/EU (Schiffsausrüstung) in der jeweils geltenden Fassung, zuletzt geändert durch die Durchführungsverordnung (EU) 2018/773, vorbehaltlich der im Zertifikat genannten Auflagen, entspricht.

BG Verkehr - Ship Safety Division did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU, as amended by Commission Implementing Regulation (EU) 2018/773 subject to any conditions in the schedule attached hereto.

Ausstellungsdatum

08.02.2019

Date of issue

Ablaufdatum

07.02.2024

Expiry date



Unterschrift (Niehus)  
Signature



Europäisch notifizierte Stelle  
Kennnummer 0736  
European notified body  
Identification number 0736

### Zulassungsbedingungen / condition of approval:

**Note 1:** Dieses Zertifikat wird ungültig, wenn der Hersteller Änderungen oder Modifikationen jeglicher Art am zugelassenen Produkt durchgeführt hat, die nicht der benannten Stelle gemeldet und mit ihr abgestimmt wurden.  
*This certificate becomes invalid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.*

**Note 2:** Sollten spezielle Regeln oder Prüf-Standards für die o.g. Ausrüstung während der Gültigkeit des Zertifikates geändert werden, muss das Produkt neu getestet werden, bevor es nach Inkrafttreten der Änderungen an Bord geliefert wird.  
*Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.*

**Note 3:** Das Konformitätskennzeichen darf an o. g. zugelassener Ausrüstung nur angebracht und eine "Declaration of Conformity" vom Hersteller nur ausgestellt werden, wenn die Qualitätssicherungsmodule (D, E oder F) des Anhangs II der Richtlinie voll eingehalten und durch die „benannte Stelle“ im Rahmen eines schriftlichen Vertrages mit dem Hersteller überwacht werden.

*The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the Quality assurance module (D, E or F) of Annex II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.*

#### **Note 4: "Steuerrad" Format**

YYYY Die vierstelligen Ziffern des Jahres, in dem das Konformitätskennzeichen angebracht wurde.

XXXX Kennnummer der benannten Stelle, die die Qualitätssicherung beim Hersteller überwacht  
**"Wheelmark" Format**

YYYY The year in which the mark is affixed.

XXXX Notified Body number undertaking surveillance module

**Note 5:** Die an Bord von Seeschiffen zur Verwendung kommende Ausrüstung muss mit der geprüften Ausrüstung in seiner Zusammensetzung und seinen Eigenschaften übereinstimmen.

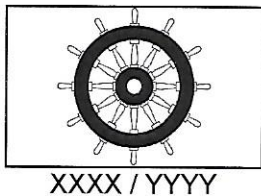
*The equipment installed on board ships shall comply in every respect with the Marine equipment which has been tested.*

**Note 6:** Die in den Handel kommende Schiffsausrüstung sind entsprechend Artikel 10 der Richtlinie 2014/90/EU des Rates vom 23. Juli 2014 über Schiffsausrüstung zu kennzeichnen.

*The equipment shall be marked in accordance with Article 10 of the Council Directive 2014/90/EU of 23 July 2014 on Marine Equipment as amended.*

**Note 7:** Diese EG-Baumusterprüfbescheinigung darf nur in vollem Wortlaut veröffentlicht oder Dritten zugänglich gemacht werden.

*This EC-Type Examination Certificate may only be published or transmitted unabridged.*







Europäisch notifizierte Stelle  
Kennnummer 0736  
European notified body  
Identification number 0736

**Bestimmungsgemäße Verwendung / intended purpose:**

Schwerentflammbarer Klebstoff entsprechend:

SOLAS 74/88 Reg. II-2/3, II-2/5, II-2/9 und X/3, neueste Fassung, IMO-EntschlieÙung MSC.36(63)-(1994 HSC-Code) 7, IMO-EntschlieÙung MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Rundschreiben 1120

Adhesive with low flame-spread characteristics complying with:

SOLAS 74/88 Reg. II-2/3, II-2/5, II-2/9 and X/3, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120

**Mitgeltende Unterlagen / further applicable documents:**

- Prüfbericht Nr. 2717499 der "Entwicklungs- und Prüflabor Holztechnologie GmbH", 01217 Dresden (DE), ausgestellt am 20.09.2017
- Test Report No. 2717499 issued by "Entwicklungs- und Prüflabor Holztechnologie GmbH", 01217 Dresden (DE), on 20.09.2017

**Technische Daten / technical characteristics:**

Nassauftragsmenge des 1-komponentigen Klebstoffes: max. 320 g/m<sup>2</sup>  
Quantity of wet application of the 1-component adhesive: max. 320 g/m<sup>2</sup>

Farbe: Beige  
Colour: beige

**Weitere Bedingungen und Auflagen / additional conditions and remarks:**

Keine  
None

----- ENDE DES DOKUMENTS -----

----- END OF DOCUMENT -----

# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

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

### **1.1 Product Identifier**

Trade name: **BrakeStopFlam-Harnstoff**

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

The above mentioned product has fulfilled the surface flammability requirements acc. To IMO Res. MSC. 307(88) FTP Code 2010, Annex 1, Part 5 for application as adhesive material for marine construction. The requirements acc. to IMO Res. MSC. 307(88) FTP Code 2010, Annex 1, Part 5, Annex 4, article 2.7 concerning the exemption for additional testing of smoke density and toxicity were also fulfilled (Test report: 2717499 EPH).

Application of substance/ the mixture: Adhesive for industrial application.

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

#### **Manufacturer/ Supplier**

Patrick Leleu Furnier GmbH  
Eichetstrasse 14  
D-76456 Kuppenheim  
GERMANY

Tel: +49 (0)7 222 515 67  
Fax: +49 (0)7 222 98 91 79  
E-Mail: [info@patrick-leleu.com](mailto:info@patrick-leleu.com)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture** **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
Skin Sens. 1      H317 May cause an allergic skin reaction

#### **Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

**Hazard pictograms**

**Signal word**  
**Hazard statements**

**Precautionary statements**

The product is classified and labelled according to the CLP regulation.



GHS07

**Warning**  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
P264 Wash thoroughly with plenty of soap and water after handling.  
P280 Wear protective gloves.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

## SECTION 3: Composition/ information on ingredients

### 3.2 Chemical characterization: Mixtures

#### Description:

Condensate based on: formaldehyde, urea

Dangerous components:			
CAS: 12125-02-9 EINECS: 235-186-4	Ammonium chloride	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	<1%

#### Additional information

For the wording of the listed hazard phrases refer to section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Instantly remove any clothing soiled by the product.

#### After inhalation

Supply fresh air; consult doctor in case of symptoms.

#### After skin contact

Instantly wash with water and soap and rinse thoroughly.

#### After eye contact

Rinse opened eye for several minutes under running water.

Then consult doctor.

#### After swallowing

Rinse out mouth and then drink plenty of water.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing agents: Use firefighting measure that suit the environment  
For safety reasons unsuitable extinguishing agents: Water with a full water jet

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

Formation of poisonous gases during heating or in fires.

### 5.3 Advice for firefighters

- Protective equipment: Put on breathing apparatus.  
Do not inhale explosion gases or combustion gases.
- Additional information: Collect contaminated firefighting water separately. It must not enter drains.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedure

Not required.

Wear protective clothing.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

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

Collect mechanically.

### 6.4 reference to other sections

See Section 7 for information of safe handling

See Section 8 for information on personal protection equipment

See section 13 for information on disposal.

# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Information about protection against explosions and fires

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

- Storage requirement to be met by storerooms and containers: No special requirements. Store in cool and dry location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.
- Storage class 11 (VCI-concept)

### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/ personal protection

Additional information about design of technical systems: No further date; see item 7.

### 8.1 Control parameters

Components with limit values that require monitoring at the workplace		
9005-25-8 Starch		
WEL	Long-term value: 10* 4** mg/m³ *total inhalable **respirable	
12125-02_9 ammonium chloride		
WEL	Short-term value: 20 mg/m³ Long-term value: 10 mg/m³	
50-00-0 formaldehyde		
WEL	Short-term value: 2.5 mg/m³, 2 ppm Long-term value: 2.5 mg/m³, 2 ppm	
DNELs		
12125-02-9 ammonium chloride		
Oral	DNEL long-term exposure – system effects	55.2 mg/kg (consumer)
Dermal	DNEL long-term exposure – system effects	128.9 mg/kg (worker)
Inhalative	DNEL long-term exposure – system effects	55.2 mg/kg (consumer)
		43.97 mg/m³ (worker)
		9.4 mg/m³ (consumer)
50-00-0 formaldehyde		
Oral	DNEL long-term exposure – system effects	4.1 mg/kg (consumer)
Dermal	DNEL long-term exposure – system effects	240 mg/kg (worker)
Inhalative	DNEL long-term exposure – local effects	102 mg/kg (consumer)
	DNEL long-term exposure – local effects	0.012 mg/cm² (consumer)
	DNEL long-term exposure – system and local effects	0.1 mg/m³ (consumer)
	DNEL long-term exposure – system and local effects	0.75 mg/m³ (worker)
	DNEL long-term exposure – system effects	0.375 mg/m³ (worker)
		3.2 mg/m³ (consumer)
PNECs		
12125-02-9 ammonium chloride		
PNEC fresh water	0.25 mg/l (fresh water)	
PNEC seawater	0.025 mg/l (seawater)	
PNEC ground	50.7 mg/kg (ground)	
PNEC sewage treatment plant	13.1 mg/l (sewage treatment plant)	
PNEC temporary release	0.43 mg/l (temporary release)	
50-00-0 formaldehyde		
PNEC fresh water	0.44 mg/l (fresh water)	
PNEC seawater	0.44 mg/l (seawater)	
PNEC ground	0.2 mg/kg (ground)	
PNEC sewage treatment plant	0.19 mg/l (sewage treatment plant)	
PNEC temporary release	4.4 mg/l (temporary release)	

Additional information: The list that were valid during the compilation were used as basis.



# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

## 8.2 Exposure controls

- Personal protective equipment
- General protective and hygienic measures: Do not eat, drink or smoke while working.  
Do not inhale dust  
Wash hands during breaks and at the end of the work.
- Breathing equipment: Breathing protection in case of dust formation  
Filter P3.
- Protection of hands: Protective gloves (EN374)  
*The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.*
- Material of gloves: *The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*
- Penetration time of glove material:
- Eye protection: Safety glasses
- Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

Form:	Powder
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C: 6

#### Change in condition

Melting point/freezing point: 120 °C  
Initial boiling point and boiling range: Not determined

Flash point: >200 °C

Inflammability (solid, gaseous): Not applicable.

Ignition temperature: 370 °C

Decomposition temperature: Not determined.

Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not explosive.

#### Critical values for explosion:

Lower: Not determined.

Upper: Not determined.

Oxidising properties: Not applicable.

Vapour pressure: Not applicable.

Density: Not determined

Settled apparent density: 600 kg/m<sup>3</sup>

Relative density: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with Water: Not miscible or difficult to mix

Partition coefficient: n-octanol/water: Not determined.

#### Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

### 9.2 Other information

No further relevant information available.

# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used and stored according to specifications.

### 10.2 Chemical stability

Thermal decomposition/ conditions to be avoided: No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

Risk of spontaneous polymerization in the presence of strong acid, bases and peroxides. During processing with acids, water and/ or heat formaldehyde will be released, which may act as a sensitizer.

### 10.4 Conditions to avoid

- Avoid overheating
- Avoid dust formation
- Protect from humidity and keep away from water
- > 40°C

### 10.5 Incompatible materials

Organic Peroxides, strong bases, strong acids, acid anhydrides

### 10.6 Hazardous decomposition products

Formaldehyde

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

The requirements acc. to IMO Res. MSC. 307 (88) FTP Code 2010, Annex 1, Part 5, Annex 4, article 2.7 concerning the exemption for testing of smoke density and toxicity were fulfilled. Therefore no additional testing is necessary.

#### · Acute toxicity

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

#### · LD/LC50 values that are relevant for classification:

12125-02-9 ammonium chloride

Oral LD50 1,650 mg/kg (rat)

#### · Specific symptoms in biological assay:

rat (by inhalation): 8 h (IRT)

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### · Primary irritant effect:

#### · Skin corrosion/irritation

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

· <b>Serious eye damage/irritation</b>	Causes skin irritation. Based on available data, the classification criteria are not met.
· <b>Respiratory or skin sensitisation</b>	Guinea pig maximization test guinea pig: Caused skin sensitization in animal studies. May cause an allergic skin reaction.
· <b>Other information (about experimental toxicology):</b>	The toxicological data mentioned are derived from a similar product.
· <b>CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)</b>	Based on available data, the classification criteria are not met.
· <b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
· <b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
· <b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
· <b>STOT-single exposure</b>	Based on available data, the classification criteria are not met.
· <b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
· <b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: There is a high probability that the product is not acutely harmful to aquatic organisms.  
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

LC50 / 96h	>500 mg/l (Leuciscus idus)
------------	----------------------------

### 12.2 Persistence and degradability

Moderately/ partly eliminable from water.  
The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

- Ecotoxicological effects
- Remark: If appropriate low concentration is introduced to biological treatment plants no inhibition of the degradation activity of the activated sludge is to be anticipated.
- Other information: Local water management regulations have to be observed.
- General notes: Water hazard class 1 (German Regulation). (self-assessment): Slightly hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.

### 12.6 Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Recommendation: Must not be disposed of together with household garbage.  
Do not allow product to reach sewage system.  
Disposal according to local regulations.
- Waste disposal key number: According to the European waste listing, no waste key code can be determined as such a code depends on the individual application of the product by its user. The national and local guidelines are to be observed.
- Uncleaned packaging:



# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

-Recommendations:

Disposal must be made according to official regulations.

## SECTION 14: Transport information

· 14.1 UN-Number	not applicable
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	not applicable
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

## SECTION 15: Regulatory information

### 15.1 EU Regulation

Directive 2012/18/EU – Dangerous substance – ANNEX I  
None of the ingredients are listed.

Regulation (EC) No. 1907/2006 ANNEX XVII  
Conditions of restriction: 65

### 15.1.2 National regulations

Water hazard class

Water hazard class 1 (self-assessment); *slightly hazardous for water*

### 15.2 Chemical safety assessment

A Chemical safety Assessment has not been carried out.

## SECTION 16: Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not be establish a legally valid contractual relationship.*

Relevant phrases:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Department issuing the data specification sheet:

Patrick Leleu Furnier GmbH  
info@patrick-leleu.com

Contact:

see above

Abbreviations and acronyms:

# BrakeStopFlam-Harnstoff

Safety data sheet according to (EG) Nr. 1907/2006 (REACH)

---

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1