

# Сертификат

Стандарт

**ISO 9001:2015**

Рег. № сертификата

**01 100 1332109**

Держатель  
сертификата:

**unirubber** 

**Unirubber Sp. z o.o.**

Zielonka 17

59-940 Węgliniec

Польша

Сфера действия:

производство и продажа резиновых и термопластичных гранулятов и компонентов для напольных покрытий спортивных и развлекательных объектов

По итогам проведенного аудита соответствие требованиям стандарта ISO 9001:2015 подтверждено.

Срок действия:

Настоящий сертификат действителен от 24.08.2021 до 23.08.2024.

Первый сертификат выдан в 2015 г.

18.08.2021



TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

**UNIRUBBER SP. Z O.O.**  
Zielonka 17 59-940 Węgliniec  
NIP 951-00-24-895 REGON 01156640  
KRS 0000147719  
in.

[www.tuv.com](http://www.tuv.com)



Deutsche  
Akkreditierungsstelle  
D-ZM-16031-01-00



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Precisely Right.





NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO - Państwowy Zakład Higieny  
NATIONAL INSTITUTE OF PUBLIC HEALTH - National Institute of Hygiene

ZAKŁAD BEZPIECZEŃSTWA ZDROWOTNEGO ŚRODOWISKA  
DEPARTMENT OF ENVIRONMENTAL HEALTH AND SAFETY

## ATEST HIGIENICZNY

B-BK-60211-0318/20

HYGIENIC CERTIFICATE

ORYGINAŁ

NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE

Wyrób / product: **GRANULAT EPDM VIRGIN KOLOR**

Zawierający / containing: EPDM z produkcji pierwotnej i polietylen niskiej gęstości z produkcji pierwotnej - o pochodzeniach zgodnych z dokumentacją producenta, wypełniacz, pigment i inne składniki zgodnie z dokumentacją producenta

Przeznaczony do / destined: produkcji nawierzchni sportowych na place zabaw

Wymieniony wyżej produkt odpowiada wymaganiom higienicznym przy spełnieniu następujących warunków

/ the above-named product is acceptable according to hygienic criteria with the following conditions:

Na opakowaniu należy umieścić etykietę w języku polskim, zawierającą zalecenia dotyczące środków ostrożności wg karty charakterystyki wyrobu, zgodnie z obowiązującymi przepisami prawnymi.

Atest nie obejmuje zastosowania granulatu w postaci sypkiej wewnątrz budynków.

Atest nie obejmuje wyrobów finalnych wytworzonych na bazie niniejszego granulatu.

Atest higieniczny nie dot. parametrów technicznych, walorów użytkowych i oceny właściwości alergizujących wyrobu

/ Hygienic certificate does not apply to technical parameters, utility value and allergenic properties of the product

Wytwórca / producer:

UNIRUBBER Sp. z o.o.  
59-940 Węgliniec  
Zielonka 17

Niniejszy dokument wydano na wniosek / this certificate issued for:

UNIRUBBER Sp. z o.o.  
59-940 Węgliniec  
Zielonka 17

Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2025.04.15 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

The certificate may be corrected or cancelled after appropriate motivation. The certificate loses its validity after 2025.04.15 or in the case of changes in composition or in technology of production.

Data wydania atestu higienicznego: 11 maja 2020

The date of issue of the certificate: 11th May 2020

Kierownik  
Zakładu Bezpieczeństwa Zdrowotnego  
Środowiska

dr hab. Jolanta Solecka, prof. NIZP-PZH



NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO  
- Państwowy Zakład Higieny

Zakład Bezpieczeństwa Zdrowotnego Środowiska

**ATEST HIGIENICZNY**

HYGIENIC CERTIFICATE

NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE

BK/B/0672/02/2018

ORYGINAŁ

Wyrób / product: **Granulat EPDM czarny z recyklingu**

Zawierający / containing: mieszankę EPDM pochodzącego z recyklingu (uśrednioną od 9 dostawców - zgodnie z dokumentacją producenta)

Przeznaczony do / destined: budowy nawierzchni i wypełniania sztucznej trawy - otwartych obiektów sportowych

Wymieniony wyżej produkt odpowiada wymaganiom higienicznym przy spełnieniu następujących warunków  
/ the above-named product is acceptable according to hygienic criteria with the following conditions:  
- bez zastrzeżeń

Atest higieniczny nie dot. parametrów technicznych, walorów użytkowych i oceny właściwości alergizujących wyrobu  
/ Hygienic certificate does not apply to technical parameters, utility value and allergenic properties of the product

Wytwórca / producer:

UNIRUBBER Sp. z o.o.  
59-940 Węgliniec  
Zielonka 17

Niniejszy dokument wydano na wniosek / this certificate issued for:

UNIRUBBER Sp. z o.o.  
59-940 Węgliniec  
Zielonka 17

Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2023-07-11 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

The certificate may be corrected or cancelled after appropriate motivation. The certificate loses its validity after 2023-07-11 or in the case of changes in composition or in technology of production.


Data wydania atestu higienicznego: 11 lipca 2018

The date of issue of the certificate: 11th July 2018

Kierownik  
Zakładu Bezpieczeństwa Zdrowotnego  
Środowiska

2 up. Gawbo 15.  
dr Bożena Krogulska



	FORMULARZ	F-G2-03	Strona 1 z 1
	Karta techniczna granulatu Technical Data Sheet	Wydanie 2	Data wydania: 09.06.2017

Kolorowy granulát EPDM virgin EPDM Virgin Coloured Granules		Wydanie 4	Data aktualizacji Updated 14.04.2021
Zastosowanie Application	Nawierzchnie sportowe tj. boiska, bieżnie, korty tenisowe, bezpieczne place zabaw, podłogi, posadzki (w zależności od frakcji). Depending on the grain size: sport fields, small pitches, running tracks, tennis courts, playgrounds, swimming pools, terraces, indoor and outdoor flooring systems		
Typ materiału Type of material	Mieszanka na bazie kauczuków typu EPDM. Rubber EPDM		
Kolor Color	24 standardowe kolory. Available in 24 standard colours.		
Frakcja* Grain size*	1 – 3,5 mm		
Własności fizyczne i chemiczne: Physical and chemical properties:	Wartość Value	Jednostka Unit	Norma Standard
Wytrzymałość na rozciąganie Tensile strength	>3,0	MPa	PN-ISO 37
Wydłużenie w chwili zerwania Elongation at break	> 400	%	PN-ISO 37
Twardość Hardness	60 ± 5	ShA	PN-EN ISO 868
Gęstość (ciężar właściwy) Density	1,59 ± 0,05	g/cm³	PN-ISO 2781
Ciężar nasypowy Bulk density	650 ±30	g/dm³	PN-EN ISO 60
Zawartość kauczuku Polymer content	> 20,0	%	-
Trwałość koloru Colour fastness	5 – 4**	Skala szarości Grey scale	DIN EN 20105-A02
Analiza sitowa: Sieve analysis:			
Granulki poniżej 1 mm Granules below 1 mm	Max 0,6	%	PN-ISO 2591-1
Granulki powyżej 3,5 mm Granules above 3,5 mm	Max 10	%	
Pozostałe własności: Other:			
Kształt Shape	Mieszanka różnych kształtów, cząsteczki sześciokątne (kubiczne, heksagonalne). Mixture of different size, cubical particles.		
Opakowanie Packaging	Worki wentylowe à 25 kg lub Big-Bag à 1 000 kg na drewnianych paletach o wymiarach 1 000 x 1 200 mm. PE valve sacks 25 kg each or big bags 1000 kg placed on a wooden pallet of dimension of 100x120cm.		
Palność Flammability	Klasa palności Cfl – s1 Class Cfl – s1		
Uwagi Attention	Zalecamy stosowanie alifatycznych żywic poliuretanowych w celu uniknięcia ewentualnych odbarwień nawierzchni po czasie ekspozycji na promienie słoneczne. We recommend using of aliphatic resins/binders because of the possibility of discoloration on the surface after exposure to sunlight.		

\*Na życzenie Klienta możliwe jest wykonanie innej frakcji granulatu.

Wszystkie dane techniczne zawarte w tym dokumencie są oparte na bieżącej analizie średnich wartości produkowanych granulatów i przedstawione by pomóc naszym Klientom w doborze odpowiedniego produktu do finalnego zastosowania. Firma Unirubber Sp. z o.o. nie ponosi odpowiedzialności za niesatysfakcjonujące wyniki przetwórstwa, ponieważ warunki procesów są poza naszą kontrolą.

\*Other grain sizes on request.


All technical data shown in this specification are based on the current analysis of mean value of the produced granulates. And are intended to help our customers in the choice of final application of the granulates. Unirubber Sp. z o.o. does not bear responsibility for unsatisfactory results of processing as the processing conditions are beyond our control

\*\*Zależnie od koloru: 5- bez zmian, 4 – drobna zmiana.

\*\*Depending on color: 5 – no change, 4 – minor change.

Imię i nazwisko Name	Marcin Marczak	Stanowisko Position	Koordynator ds. technologii Technology coordinator	Data Date	14.04.2021
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UNIRUBBER SP. Z O.O.  
Zielonka 17 59-940 Wielgomłoty  
NIP 951-00-24-895 REGON 141156041  
KRS 0000141156041

	FORMULARZ	F-W4-03	Strona 1 z 1
	Karta techniczna granulatu Technical Data Sheet	Wydanie 1	Data wydania: 23.07.2015

Szaro – czarny granulat EPDM z recyklingu Grey - black EPDM Recycled Granules		Wydanie Edition 1	Data aktualizacji Updated 30.09.2015
Typ materiału Type of material	Odpady na bazie kauczuków EPDM. Scrap based on EPDM rubber.		
Kolor Color	Szaro – czarno - brązowy w różnych odcieniach. Grey – black - brown in different shades.		
Frakcja* Grain size*	0,5 – 2,5 mm		
Własności fizyczne i chemiczne: Physical and chemical properties:	Wartość Value	Jednostka Unit	Norma Standard
Ciężar nasypowy Bulk density	~ 570	g/dm³	PN-EN ISO 60
Analiza sitowa: Sieve analysis:			
Granulki poniżej 0,5 mm Granules below 0,5 mm	Max 3,0	%	PN-ISO 2591-1
Granulki powyżej 2,5 mm Granules above 2,5 mm	Max 8,0	%	
Wtrącenia tkaniny Textile impurities	Max 1,0	%	
Pozostałe własności: Other:			
Kształt Shape	Mieszanina różnych kształtów, cząsteczki sześciokątne (kubiczne, heksagonalne). Mixture of different size, cubical particles.		
Opakowanie Packaging	Worki wentylowe à 25 kg lub Big-Bag à 1 000 kg na drewnianych paletach o wymiarach 1 000 x 1 200 mm. PE valve sacks 25 kg each or big bags 1000 kg placed on a wooden pallet of dimension of 100x120cm.		

\*Na życzenie Klienta możliwe jest wykonanie innej frakcji granulatu.

Wszystkie dane techniczne zawarte w tym dokumencie są oparte na bieżącej analizie średnich wartości produkowanych granulatów i przedstawione by pomóc naszym Klientom w doborze odpowiedniego produktu do finalnego zastosowania. Firma Unirubber Sp. z o.o. nie ponosi odpowiedzialności za niesatysfakcjonujące wyniki przetwórstwa, ponieważ warunki procesów są poza naszą kontrolą.


\*Other grain sizes on request.

All technical data shown in this specification are based on the current analysis of mean value of the produced granulates. And are intended to help our customers in the choice of final application of the granulates. Unirubber Sp. z o.o. does not bear responsibility for unsatisfactory results of processing as the processing conditions are beyond our control

Imię i nazwisko <i>Name</i>	Krzysztof Kruk	Stanowisko <i>Position</i>	Technolog <i>Technologist</i>	Data <i>Date</i>	30.09.2015
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UNIRUBBER SP Z O.O.  
Zielonka 17 59-940 Węgliniec  
NIP 951-00-24-895 REGON 01156644  
KRS 0000147719



	FORMULARZ	F-G2-03	Strona 1 z 1
	Karta techniczna granulatu Technical Data Sheet	Wydanie 1	Data wydania: 23.07.2017

Czarny granulat EPDM z recyklingu EPDM Recycled Granules		Wydanie Edition 2	Data aktualizacji Updated 14.04.2021
Typ materiału Type of material	Odpady na bazie różnych kauczuków (głównie EPDM). Scrap based on different types of rubber (mainly EPDM).		
Kolor Color	Czarny. Black.		
Frakcja* Grain size	1,0 – 4,0 mm		
Własności fizyczne i chemiczne: Physical and chemical properties:	Wartość Value	Jednostka Unit	Norma Standard
Ciężar nasypowy Bulk density	< 550	g/dm <sup>3</sup>	PN-EN ISO 60
Analiza sitowa: Sieve analysis:			
Granulki poniżej 1 mm Granules below 1 mm	Max 1,0	%	PN-ISO 2591-1
Granulki powyżej 4 mm Granules above 4 mm	Max 10,0	%	
Wtrącenia tkaniny Textile impurities	Max 1,0	%	
Pozostałe własności: Other:			
Kształt Shape	Mieszanina różnych kształtów, cząsteczki sześciokątne (kubiczne, heksagonalne). Mixture of different size, cubical particles.		
Opakowanie Packaging	Worki wentylowe à 25 kg lub Big-Bag à 1 000 kg na drewnianych paletach o wymiarach 1 000 x 1 200 mm. PE valve sacks 25 kg each or big bags 1000 kg placed on a wooden pallet of dimension of 100x120cm.		

\*Na życzenie Klienta możliwe jest wykonanie Innej frakcji granulatu.

Wszystkie dane techniczne zawarte w tym dokumencie są oparte na bieżącej analizie średnich wartości produkowanych granulatów i przedstawione by pomóc naszym Klientom w doborze odpowiedniego produktu do finalnego zastosowania. Firma Unirubber Sp. z o.o. nie ponosi odpowiedzialności za niesatysfakcjonujące wyniki przetwórstwa, ponieważ warunki procesów są poza naszą kontrolą.

\*Other grain sizes on request.

All technical data shown in this specification are based on the current analysis of mean value of the produced granulates. And are intended to help our customers in the choice of final application of the granulates. Unirubber Sp. z o.o. does not bear responsibility for unsatisfactory results of processing as the processing conditions are beyond our control

Imię i nazwisko Name	Marcin Marczak	Stanowisko Position	Koordinator ds. Technologii Technology Coordinator	Data Date	14.04.2021
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 UNIRUBBER SP Z O.O.  
 Zielonka 17 59-940 Węgliniec  
 NIP 951-00-24-895 REGON 0115664  
 KRS 0000147719

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.04.2020

Revision: 09.04.2020

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

- **1.1 Product identifier**
- **Trade name:** STOBIELAST® S100.00
- **Article number:** 22010000
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Component of a polyurethane system.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
STOCKMEIER URETHANES France S.A.S  
8, rue de l'industrie, Z.I.  
F-68700 CERNAY  
FRANCE  
urethanes.fr@stockmeier.com
- **Further information obtainable from:** Product Safety Department.
- **1.4 Emergency telephone number:** Available during business hours: +33 389 75 70 70



### SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Carc. 2 H351 Suspected of causing cancer.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
diphenylmethanediisocyanate, isomeres and homologues  
n-butyl acetate

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.04.2020

Revision: 09.04.2020

**Trade name: STOBIELAST® S100.00**

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**· Hazard statements**

- H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**· Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P285 In case of inadequate ventilation wear respiratory protection.  
 P321 Specific treatment (see on this label).  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Additional information:**

EUH204 Contains isocyanates. May produce an allergic reaction.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**· 3.2 Chemical characterisation: Mixtures**

· **Description:** Urethane prepolymer based on oligomeric diphenylmethane diisocyanate.

**· Dangerous components:**

CAS: 123-86-4	n-butyl acetate	25-50%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	10-25%
	⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

· **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:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**· After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing.

(Contd. on page 3)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.04.2020

Revision: 09.04.2020

**Trade name: STOBIELAST® S100.00**

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- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
If symptoms persist consult doctor.  
Rinse mouth.
- **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:**  
Water spray  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>).
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Precautionary measures if handling chemicals, wear appropriate personal protective equipment.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 09.04.2020

Revision: 09.04.2020

Trade name: **STOBIELAST® S100.00**

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Stocker dans un endroit ventilé, air sec et frais, à l'abri de la lumière.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

#### · 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

##### **123-86-4 n-butyl acetate**

WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm
	Long-term value: 724 mg/m <sup>3</sup> , 150 ppm

##### **9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

WEL	Short-term value: 0.07 mg/m <sup>3</sup>
	Long-term value: 0.02 mg/m <sup>3</sup>
	Sen; as -NCO

#### · **DNELs**

##### **123-86-4 n-butyl acetate**

Dermal	DNEL Long terme/Effet systémique (opérateur)	7 mg/kg bw/jour (Opérateur)
Inhalative	DNEL Long terme/Effet systémique (opérateur)	480 mg/m <sup>3</sup> (Opérateur)

- **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

##### · **Personal protective equipment:**

##### · **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.  
 Avoid contact with the eyes and skin.  
 Pregnant women should strictly avoid inhalation or skin contact.  
 Do not eat, drink, smoke or sniff while working.

##### · **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

Use suitable respiratory protective device in case of insufficient ventilation.

##### · **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### · **Material of gloves**

The selection of the 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

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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**



Protective work clothing

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Amber coloured
<b>Odour:</b>	Uncharacteristic.
<b>Odour threshold:</b>	Not determined.

· <b>pH-value:</b>	Not determined.
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· **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Undetermined.

· <b>Flash point:</b>	32 °C
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· <b>Flammability (solid, gas):</b>	Not applicable.
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· <b>Ignition temperature:</b>	370 °C
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· <b>Decomposition temperature:</b>	Not determined.
-------------------------------------	-----------------

· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
-------------------------------------	------------------------------

· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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· **Explosion limits:**

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.5 Vol %

· <b>Vapour pressure at 20 °C:</b>	10.7 hPa
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· <b>Density at 20 °C:</b>	0.99 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

· <b>Solubility in / Miscibility with water:</b>	Not determined.
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· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
--	-----------------

· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	25 mPas

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<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	495.0 g/l
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · **LD/LC50 values relevant for classification:**

##### **123-86-4 n-butyl acetate**

Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

##### **9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

Oral	LD50	2,200 mg/kg (mouse) 31,600 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/1h	2.24 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

**9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

Oral	EC50	1,000 mg/l (daphnia)
	LC50/96h	>1,000 mg/l (poissons)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

#### · Additional ecological information:

##### · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:** Isocyanate wastes.

##### · European waste catalogue

HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP13	Sensitising

##### · Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### · 14.1 UN-Number

· **ADR, IMDG, IATA** UN1123

#### · 14.2 UN proper shipping name

· **ADR, IMDG, IATA** BUTYL ACETATES mixture

#### · 14.3 Transport hazard class(es)

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

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· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Flammable liquids. 30 F-E,S-D E
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	3 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E3 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml
· <b>UN "Model Regulation":</b>	UN 1123 BUTYL ACETATES MIXTURE, 3, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008 GHS label elements**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

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· **Department issuing SDS:** Department of Product Safety.

· **Contact:** urethanes.fr@stockmeier.com

· **Abbreviations and acronyms:**

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - inhalation – Category 4

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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# Safety data sheet

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

- **1.1 Product identifier**
- **Trade name:** STOBIELAST® S131.09
- **Article number:** 22013109
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Component of a polyurethane system.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
STOCKMEIER URETHANES France S.A.S  
8, rue de l'industrie, Z.I.  
F-68700 CERNAY  
FRANCE  
urethanes.fr@stockmeier.com
- **Further information obtainable from:** Product Safety Department.
- **1.4 Emergency telephone number:** Available during business hours: +33 389 75 70 70



### SECTION 2: Hazards identification

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



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methylenediphenyl diisocyanate  
m-tolylidene diisocyanate
- **Hazard statements**  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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*H317 May cause an allergic skin reaction.**H351 Suspected of causing cancer.**H335 May cause respiratory irritation.**H373 May cause damage to organs through prolonged or repeated exposure.***· Precautionary statements***P260 Do not breathe dust/fume/gas/mist/vapours/spray.**P285 In case of inadequate ventilation wear respiratory protection.**P321 Specific treatment (see on this label).**P302+P352 IF ON SKIN: Wash with plenty of water.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.**P362+P364 Take off contaminated clothing and wash it before reuse.**P403+P233 Store in a well-ventilated place. Keep container tightly closed.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· Additional information:***EUH204 Contains isocyanates. May produce an allergic reaction.***· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures****· Description:***Urethane prepolymer based on oligomeric diphenylmethane diisocyanate.**Urethane prepolymer based on toluene diisocyanate.***· Dangerous components:**

26447-40-5	methylenediphenyl diisocyanate	25-50%
	⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317; STOT SE 3, H335	
26471-62-5	m-tolylidene diisocyanate	≤2.5%
	⚠ Acute Tox. 2, H330; ⚠ Resp. Sens. 1, H334; Carc. 2, H351; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	

**· 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:***Immediately remove any clothing soiled by the product.**Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***· After inhalation:***Supply fresh air and to be sure call for a doctor.**In case of unconsciousness place patient stably in side position for transportation.***· After skin contact:***Immediately wash with water and soap and rinse thoroughly.**Remove contaminated clothing.***· After eye contact:** Rinse opened eye for several minutes under running water.**· After swallowing:***If symptoms persist consult doctor.*

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Rinse mouth.

- **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:**  
Water spray  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.  
Nitrogen oxides (NOx)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>).
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Precautionary measures if handling chemicals, wear appropriate personal protective equipment.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Stocker dans un endroit ventilé, air sec et frais, à l'abri de la lumière.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.

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- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

#### 26471-62-5 m-tolyldiene diisocyanate

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
-----	---

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat, drink, smoke or sniff while working.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the 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 can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

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· **Body protection:**

Protective work clothing

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Liquid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not determined.
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· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

Flash point:	Not applicable.
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Flammability (solid, gas):	Not applicable.
----------------------------	-----------------

Ignition temperature:	400 °C
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Decomposition temperature:	Not determined.
----------------------------	-----------------

Auto-ignition temperature:	Product is not selfigniting.
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Explosive properties:	Product does not present an explosion hazard.
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· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure:	Not determined.
------------------	-----------------

Density at 20 °C:	1.07 g/cm <sup>3</sup>
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Relative density	Not determined.
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Vapour density	Not determined.
----------------	-----------------

Evaporation rate	Not determined.
------------------	-----------------

Solubility in / Miscibility with water:	Not determined.
---	-----------------

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

· **Viscosity:**

Dynamic at 20 °C:	4,700 mPas
Kinematic:	Not determined.

Solvent content:	0.0 g/l
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9.2 Other information	No further relevant information available.
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### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.· **10.2 Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity

Harmful if inhaled.

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

##### 26447-40-5 methylenediphenyl diisocyanate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50/1h	>2.24 mg/l (rat)

##### 26471-62-5 m-tolylidene diisocyanate

Oral	LD50	4,000-6,000 mg/kg (rat)
Dermal	LD50	>9,000 mg/kg (rabbit)

##### · Primary irritant effect:

##### · Skin corrosion/irritation

Causes skin irritation.

##### · Serious eye damage/irritation

Causes serious eye irritation.

##### · Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

##### · CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### · Germ cell mutagenicity

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

##### · Carcinogenicity

Suspected of causing cancer.

##### · Reproductive toxicity

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

##### · STOT-single exposure

May cause respiratory irritation.

##### · STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

##### · Aspiration hazard

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

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 26447-40-5 methylenediphenyl diisocyanate

Oral	EC50	1,000 mg/l (daphnia)
	LC50/96h	>1,000 mg/l (poissons)

##### 26471-62-5 m-tolylidene diisocyanate

Oral	EC50	750 mg/l (daphnia)
	LC50/96h	3,230 mg/l (algae)
		>100 mg/l (poissons)
	LC50/24h	>500 mg/l (poissons)

##### · 12.2 Persistence and degradability

No further relevant information available.

##### · 12.3 Bioaccumulative potential

No further relevant information available.

##### · 12.4 Mobility in soil

No further relevant information available.

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- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*
- **Waste disposal key:** Isocyanate wastes.

#### · **European waste catalogue**

HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP13	Sensitising

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>  | not regulated   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>                            | not regulated   |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | not regulated   |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | not regulated   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>  | Not applicable. |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>  | Not applicable. |
| <ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>                        | Not applicable. |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | not regulated   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008 GHS label elements**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 25.11.2020

Revision: 25.11.2020

**Trade name: STOBIELAST® S131.09**

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· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Department of Product Safety.· **Contact:** urethanes.fr@stockmeier.com

#### · **Abbreviations and acronyms:**

Acute Tox. 2: Acute toxicity - inhalation – Category 2

Acute Tox. 4: Acute toxicity - inhalation – Category 4

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 25.11.2020

Revision: 25.11.2020

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

- **1.1 Product identifier**
- **Trade name:** STOBIELAST® S131.87
- **Article number:** 22013187
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Component of a polyurethane system.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
STOCKMEIER URETHANES France S.A.S  
8, rue de l'industrie, Z.I.  
F-68700 CERNAY  
FRANCE  
urethanes.fr@stockmeier.com
- **Further information obtainable from:** Product Safety Department.
- **1.4 Emergency telephone number:** Available during business hours: +33 389 75 70 70



### SECTION 2: Hazards identification

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



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
methylenediphenyl diisocyanate  
m-tolylidene diisocyanate
- **Hazard statements**  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 25.11.2020

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**Trade name: STOBIELAST® S131.87**

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*H317 May cause an allergic skin reaction.**H351 Suspected of causing cancer.**H335 May cause respiratory irritation.**H373 May cause damage to organs through prolonged or repeated exposure.***· Precautionary statements***P285 In case of inadequate ventilation wear respiratory protection.**P321 Specific treatment (see on this label).**P302+P352 IF ON SKIN: Wash with plenty of water.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.**P362+P364 Take off contaminated clothing and wash it before reuse.**P403+P233 Store in a well-ventilated place. Keep container tightly closed.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· Additional information:***EUH204 Contains isocyanates. May produce an allergic reaction.***· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Chemical characterisation: Mixtures****· Description:***Urethane prepolymer based on oligomeric diphenylmethane diisocyanate.**Urethane prepolymer based on toluene diisocyanate.***· Dangerous components:**

26447-40-5	methylenediphenyl diisocyanate	25-50%
	⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317; STOT SE 3, H335	
26471-62-5	m-tolylidene diisocyanate	≤2.5%
	⚠ Acute Tox. 2, H330; ⚠ Resp. Sens. 1, H334; Carc. 2, H351; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	

**· 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:***Immediately remove any clothing soiled by the product.**Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***· After inhalation:***Supply fresh air and to be sure call for a doctor.**In case of unconsciousness place patient stably in side position for transportation.***· After skin contact:***Immediately wash with water and soap and rinse thoroughly.**Remove contaminated clothing.***· After eye contact:** Rinse opened eye for several minutes under running water.**· After swallowing:***If symptoms persist consult doctor.**Rinse mouth.*

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- **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:**  
Water spray  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>).
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Precautionary measures if handling chemicals, wear appropriate personal protective equipment.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Stocker dans un endroit ventilé, air sec et frais, à l'abri de la lumière.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.

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· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****26471-62-5 m-tolyldiene diisocyanate**

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat, drink, smoke or sniff while working.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the 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 can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

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· **Body protection:**

Protective work clothing

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Light Amber
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.· **Change in condition**

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.· **Flammability (solid, gas):** Not applicable.· **Ignition temperature:** 400 °C· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not selfigniting.· **Explosive properties:** Product does not present an explosion hazard.· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1.07 g/cm<sup>3</sup>· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with water:**

Not determined.

· **Partition coefficient: n-octanol/water:** Not determined.· **Viscosity:**

· <b>Dynamic at 20 °C:</b>	4,700 mPas
· <b>Kinematic:</b>	Not determined.

· **Solvent content:** 0.0 g/l· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.· **10.2 Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

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## according to 1907/2006/EC, Article 31

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity

Harmful if inhaled.

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

##### 26447-40-5 methylenediphenyl diisocyanate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50/1h	>2.24 mg/l (rat)

##### 26471-62-5 m-tolylidene diisocyanate

Oral	LD50	4,000-6,000 mg/kg (rat)
Dermal	LD50	>9,000 mg/kg (rabbit)

##### · Primary irritant effect:

##### · Skin corrosion/irritation

Causes skin irritation.

##### · Serious eye damage/irritation

Causes serious eye irritation.

##### · Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

##### · CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### · Germ cell mutagenicity

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

##### · Carcinogenicity

Suspected of causing cancer.

##### · Reproductive toxicity

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

##### · STOT-single exposure

May cause respiratory irritation.

##### · STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

##### · Aspiration hazard

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

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 26447-40-5 methylenediphenyl diisocyanate

Oral	EC50	1,000 mg/l (daphnia)
	LC50/96h	>1,000 mg/l (poissons)

##### 26471-62-5 m-tolylidene diisocyanate

Oral	EC50	750 mg/l (daphnia)
	LC50/96h	3,230 mg/l (algae)
		>100 mg/l (poissons)
	LC50/24h	>500 mg/l (poissons)

##### · 12.2 Persistence and degradability

No further relevant information available.

##### · 12.3 Bioaccumulative potential

No further relevant information available.

##### · 12.4 Mobility in soil

No further relevant information available.

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**Trade name: STOBIELAST® S131.87**

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:** Isocyanate wastes.

- **European waste catalogue**

HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP13	Sensitising

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | not regulated   |
| · <b>14.2 UN proper shipping name</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | not regulated   |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | not regulated   |
| · <b>14.4 Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>   | not regulated   |
| · <b>14.5 Environmental hazards:</b>   | Not applicable. |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | not regulated   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008 GHS label elements**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

(Contd. on page 8)



# Safety data sheet

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None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

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#### · **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Department of Product Safety.· **Contact:** urethanes.fr@stockmeier.com

#### · **Abbreviations and acronyms:**

Acute Tox. 2: Acute toxicity - inhalation – Category 2

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

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Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB

SMG Sportplatzmaschinenbau GmbH  
Robert-Bosch-Str. 3  
DE-89269 Vöhringen

Vöhringen, 22.04.2022

## **CERTIFICATE**

We, SMG Sportplatzmaschinenbau GmbH, located in Robert-Bosch-Str.  
3, DE-89269 Vöhringen (Germany) herewith declare that

***Mr. Ion Cozmulici***

is the authorized user of the SMG machinery and equipment.

**Mr. Ion Cozmulici** having successfully completed the operator  
training for our machinery and equipment.

SMG Sportplatzmaschinenbau GmbH

Tobias Owegeser, CEO



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D-89269 Vöhringen (Germany)  
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