



PREFERRED PROVIDER FOR FOOTBALL TURF

CERTIFICATE

FIFA is pleased to confirm that

Edel Grass B.V.

Is classed as a PREFERRED PROVIDER for Football Turf

Valid

from 09/01/2023 to 08/01/2025

Total Quality Service is guaranteed by

- Additional expertise in civil engineering (subbase) and project management (general contractor)
- Full responsibility for the production, installation and maintenance from inception to completion
- High level of service and continuous development of football turf products
- Experience as a FIFA Quality Programme licensee with FIFA-certified fields

Gianni Infantino
Presidente de la Fédération Internationale de Football Association

www.FIFA.com/footballturf

DECLARATION OF CONFORMITY TO PN-EN 15330-1:2008

Date December 04 2023

To Geothermal-AV Chisinau Moldova

To whom it may concern,

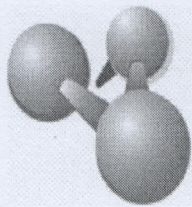
- **EDEL FLASHBLADE 50**

Herewith we declare that all our products are produced in compliance with the above mentioned norm PN-EN 15330-1:2008 and the parameters of the attached documents. All technical characteristics are in compliance with the attached technical data sheet.

Yours sincerely,

Edel Grass BV

EDEL GRASS BV
Fabrieksstraat 13
8281 BW GENEMUIDEN
THE NETHERLANDS



PCI Trading[®]

Str. Uzinei, nr.67, Rm.Valcea
RO 32373067; J38/544/2013
Capital social: 5.000.000 lei



RO15BRDE390SV50723113900
B.R.D. GroupeSociete Generale – Rm.Valcea

RO34CECEB00030RON0159524
C.E.C. BANK - Craiova



ISO 9001 Cert. nr. 856C
ISO 14001 Cert. nr. 439M
ISO 45001 Cert. nr. 301HS

LABORATOR CTC

CERTIFICAT DE CALITATE

Nr. 23760289 din data de 30/03/2023

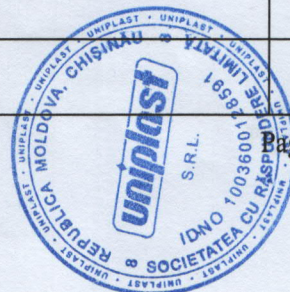
Denumire produs: **TEAVA MULTISTRAT**

Nr. crt.	Tip produs
1	TEAVA PVC DN110 SN2 2ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
2	TEAVA PVC DN110 SN2 3ML- CONSTRUCTII-OLTGROUP (Cod vama: 391723100080)
3	TEAVA PVC DN110 SN4 1ML- CONSTRUCTII OLTGROUP (Cod vama: 391723900080)
4	TEAVA PVC DN110 SN8 1ML- CONSTRUCTII OLTGROUP
5	TEAVA PVC DN110 SN8 2ML- CONSTRUCTII OLTGROUP
6	TEAVA PVC DN125 SN4 1ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
7	TEAVA PVC DN125 SN4 3ML- CONSTRUCTII OLTGROUP
8	TEAVA PVC DN160 SN2 1ML- CONSTRUCTII OLTGROUP (Cod vama: 391723900080)
9	TEAVA PVC DN160 SN2 2ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
10	TEAVA PVC DN160 SN2 6ML- CONSTRUCTII OLTGROUP
11	TEAVA PVC DN160 SN4 2ML- CONSTRUCTII OLTGROUP (Cod vama: 391723900080)
12	TEAVA PVC DN160 SN4 3ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
13	TEAVA PVC DN160 SN4 4ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
14	TEAVA PVC DN160 SN4 6ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
15	TEAVA PVC DN160 SN8 1ML- CONSTRUCTII OLTGROUP
16	TEAVA PVC DN160 SN8 2ML- CONSTRUCTII OLTGROUP
17	TEAVA PVC DN200 SN2 1ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
18	TEAVA PVC DN200 SN2 2ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
19	TEAVA PVC DN200 SN4 6ML- CONSTRUCTII OLTGROUP (Cod vama: 391723100080)
20	TEAVA PVC DN250 SN4 4ML- CONSTRUCTII OLTGROUP

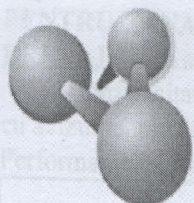
Document de referinta: **Agrement tehnic 017-05/3697-2022**

Nr. Crt	Caracteristici	UM	Valori realizate	Valori prevazute
1	Aspect, culoare, dimensiuni		Corespund comenzii	Corespund FT
2	Rezistenta la soc (nr. de epruvete) - metoda prin cadere libere la 20 °C	%		Max 10/10
3	Contractia longitudinala la cald (din etuva)	%		Max 5 - fara defecte
4	Determinarea rigiditatii inelare	KN/m2		Corespunde clasei de presiune

Formular cod: F-PO-05-02

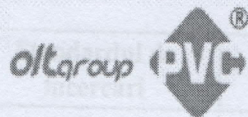


Pagina 1 din 2



PCI Trading

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RO 32373067; J38/544/2013
Capital social: 5.000.000 lei



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ISO 9001 Cert. nr. 856C
ISO 14001 Cert. nr. 439M
ISO 45001 Cert. nr. 301HS

DECLARATIE DE CONFORMITATE

Nr. 23760289 din data de 30/03/2023

Producator	PCI TRADING SRL
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Nr. crt.	Cod de referinta al produsului dat de producator	Tip teava	Numar Lot
1	TVM110SN2-2/0.95	TEAVA PVC DN110 SN2 2ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-5/18-21
2	TVM110SN2-3/0.95	TEAVA PVC DN110 SN2 3ML- CONSTRUCTII-OLTGROUP (Cod vamal: 391723100080)	P7-4/2-7
3	TVM110SN4-1/1.25	TEAVA PVC DN110 SN4 1ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723900080)	P7-39/3-18
4	TVM110SN8-1/1.35	TEAVA PVC DN110 SN8 1ML- CONSTRUCTII OLTGROUP	P7-32/5
5	TVM110SN8-2/1.35	TEAVA PVC DN110 SN8 2ML- CONSTRUCTII OLTGROUP	P7-31/1-5
6	TVM125SN4-1/1.40	TEAVA PVC DN125 SN4 1ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-128/30-33
7	TVM125SN4-3/1.40	TEAVA PVC DN125 SN4 3ML- CONSTRUCTII OLTGROUP	P7-270/1-7
8	TVM160SN2-1/2.05	TEAVA PVC DN160 SN2 1ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723900080)	P7-199/20-26
9	TVM160SN2-2/2.05	TEAVA PVC DN160 SN2 2ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-51/1-2
10	TVM160SN2-6/2.05	TEAVA PVC DN160 SN2 6ML- CONSTRUCTII OLTGROUP	P7-236/1-13
11	TVM160SN4-2/2.25	TEAVA PVC DN160 SN4 2ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723900080)	P7-12/10-14
12	TVM160SN4-3/2.25	TEAVA PVC DN160 SN4 3ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-11/16-28
13	TVM160SN4-4/2.25	TEAVA PVC DN160 SN4 4ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-13/6-13
14	TVM160SN4-6/2.25	TEAVA PVC DN160 SN4 6ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-22/29-33
15	TVM160SN8-1/2.90	TEAVA PVC DN160 SN8 1ML- CONSTRUCTII OLTGROUP	P7-25/1-5
16	TVM160SN8-2/2.90	TEAVA PVC DN160 SN8 2ML- CONSTRUCTII OLTGROUP	P7-154/1-4
17	TVM200SN2-1/2.85	TEAVA PVC DN200 SN2 1ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-219/1-5
18	TVM200SN2-2/2.85	TEAVA PVC DN200 SN2 2ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-254/1-4
19	TVM200SN4-6/3.25	TEAVA PVC DN200 SN4 6ML- CONSTRUCTII OLTGROUP (Cod vamal: 391723100080)	P7-16/13-38
20	TVM250SN4-4/5.50	TEAVA PVC DN250 SN4 4ML- CONSTRUCTII OLTGROUP	P9-116/1-13

In conformitate cu Ordonanta nr. 20 din 18.08.2010 privind stabilirea unor masuri pentru aplicarea unitara a legislatiei Uniunii Europene care armonizeaza conditiile de comercializare a produselor cu Hotararea Guvernului nr.

668/2017 republicata privind stabilirea conditiilor de introducere pe piata a produselor pentru constructii declara pe proprie raspundere ca a fost efectuata atestarea conformitatii produselor **TEVI SI FITINGURI DIN PVC-U MULTISTRAT PENTRU CANALIZARE SI DRENAJE** pentru utilizarea prevazuta (**RETELE EXTERIOARE DE CANALIZARE SI DRENAJ**) si ca acestea pot fi puse in opera conform instructiunilor de utilizare a produsului.


Conformitatea este demonstrata avand ca referinta: **AGREMENTUL TEHNIC NR. 017-05/3697-2022** , prelungit cu avizul tehnic din data de **21.06.2022** .

Performantele produsului:

Caracteristici	Standardul de incercari	Prevederile din standard	Valori declarate
Contractia longitudinala la cald	SR EN ISO 2505	Epruvetele supuse incalzirii nu trebuie sa aiba goluri, fisuri sau crapaturi care sa influenteze grosimea peretelui, iar contractia maxima admisa este de $\leq 5\%$.	3,1 %
Rezistenta la soc	SR EN 744	Nici una din epruvetele supuse testarii nu trebuie sa prezinte fisuri.	Zero sparger
Rigiditate inelara	SR EN ISO 9969	Se determina rigiditatea inelara prin masurarea fortei si a deformatiei in timpul ovalizarii tevii.	Corespunde clasei de presiune

Denumirea, descrierea produsului: **TEVI DIN PVC-U MULTISTRAT PENTRU CANALIZARE SI DRENAJE:**

- Denumirea si adresa organismului notificat pentru atestarea conformitatii - nu este cazul.
- Numarul certificatului - nu este cazul.
- Denumirea si adresa laboratorului notificat- nu este cazul.
- Denumirea si adresa laboratorului care a efectuat incercarile: **SC PCI TRADING SRL**

Producator	Reprezentant autorizat, Semnatura
Nume: MIHNEA IORDACHE	
Funcția: Director General	
PCI TRADING SRL	

Document de referinta: **Agreement tehnice B17-05/3697-2022**

Nr. Crt	Caracteristici	U.M.	Valori reale	Valori prevazute
1	Aspect, culoare, dimensiuni		Conform cerintei	Conform cerintei
2	Rezistenta la soc (nr. de epruvete) metoda prin cadere libera la 20°C			0 - fara defecte
3	Contractia longitudinala la cald (la cald)	%		max 5 - fara defecte
4	Determinarea rigiditatii inelare	KN/m ²		Conform clasei de presiune



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SC MINET SA
Strada Depozitelor 12 , Ramnicu Valcea

Terasin NS 200

DoP - 083200 - 6

- EN 13249:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de drumuri si alte zone de circulatie (cu exceptia cailor ferate si a straturilor de uzura)
- EN 13250:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de cai ferate
- EN 13251:2016 - Geotextile si produse inrudite - Caract. impuse pentru utilizarea in lucrarile de terasamente, fundatii si structuri de sustinere
- EN 13252:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru a fi utilizate in sistemele de drenaj
- EN 13253:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la lucrarile de control a eroziunii (protectii costiere, aparari de maluri)
- EN 13254:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea in constructii de rezervoare si baraje
- EN 13255:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de canale
- EN 13256:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de tuneluri si structuri subterane
- EN 13257:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea in lucrarile de depozitare a deseurilor solide

INCERTRANS OC - 1833




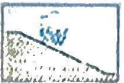




Caracteristici esentiale	Performanta declarata	Standard armonizat
Masa pe unitate de suprafata gr/m²	200 (+/- 20)	SR EN ISO 9864:2007
Gros.la sarc. 2 kN/m ² mm	1.20 (+/- 0.2)	SR EN ISO 9863-1: 2017
Rezistenta la rupere MD/CD kN/m	4.0 (- 0.6) 4.0 (- 0.6)	SR EN ISO 10319:2015
Alungirea la rupere MD/CD %	70% (+/-) 21% 80% (+/-) 24%	SR EN ISO 10319:2015
Poansonare cu CBR N	800 (- 120)	SR EN ISO 12236:2007
Perforare dinamica mm	38 (+ 9.5)	SR EN ISO 13433:2007
Permeabilitatea VIH50 l/m ² s mm/s	110 (- 33)	SR EN ISO 11058:2010
Marimea porilor la O90 in µm	75 (+/- 22.5)	SR EN ISO 12956:2010
Energia de absorbtie MD/CMD kJ/m²	1.4 / 1.6	SR EN ISO 10319:2015
Perforarea cu piramida N	N/A	SR EN 14574:2015
Curgerea in plan (i=1;20 kPa) l/m/h	7.9 7.9	SR EN ISO 12958:2010
Durabilitatea	A se acoperi in termen de 14 zile de la instalare.	
	Prevezut sa fie durabil minimum 100 ani , in pamanturi naturale cu 4 < pH < 9 si temperatura <25°C	
Eficienta protectiei %	-300 kPa	N/A
	-600 kPa	N/A
	-1200 kPa	N/A
		SR EN 13719:2016

Declaratie de performanta nr: DoP - 083200 - 6

1. Cod unic de identificare al produsului-tip:

Terasin NS 200 - Geotextil netesut din fibre de poliester

2. Utilizare preconizata: in lucrari de constructii, indeplinind functiile (si combinatii ale acestora) conform tabelului de mai jos.

EN 13249 	EN 13251 	EN 13252 	EN 13253 	EN 13254 	EN 13255 	EN 13256 	EN 13257 
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F-Filtrare		S-Separare		D-Drenare			

3. Fabricant : **SC MINET SA , Ramnicu Valcea, judetul Valcea, Strada Depozitelor nr.12,**

4. Reprezentant autorizat; Nu este cazul

5. Sistemul sau sistemele de evaluare și verificare a constanței performanței: **Sistem 2+**

6.a. Standard armonizat:

- EN 13249:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de drumuri si alte zone de circulatie (cu exceptia cailor ferate si a straturilor de uzura)

- EN 13250:2016 - Geotextile și produse înrudite - Caracteristici impuse pentru utilizarea la construcția de căi ferate

- EN 13251:2016 - Geotextile si produse inrudite - Caract. impuse pentru utilizarea in lucrarile de terasamente, fundatii si structuri de sustinere

- EN 13252:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru a fi utilizate in sistemele de drenaj

- EN 13253:2016 - Geotextile si produse inrudite - Caract. impuse pentru utiliz. la lucrarile de control a eroziunii(protectii costiere,aparari de maluri)

- EN 13254:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea in constructii de rezervoare si baraje

- EN 13255:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de canale

- EN 13256:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea la constructia de tuneluri si structuri subterane

- EN 13257:2016 - Geotextile si produse inrudite - Caracteristici impuse pentru utilizarea in lucrarile de depozitare a deseurilor solide

6.b. **INCERTRANS-OC** - Organism de certificare notificat de Comisia Europeana pentru atestarea conformitatii produselor pentru constructii, cu Numar de identificare 1833 a efectuat (1) inspectarea inițiala a fabricii și a controlului producției în fabrică si (2) supravegherea și evaluarea continua a controlului producției în fabrică, în cadrul sistemului de evaluare și verificare a constanței performanței produsului pentru construcții, **Sistem 2+**, și a emis Certificatul de conformitate CE cu nr: **1833-CPR-0053**

7. Performanța declarată

Caracteristici esentiale	Performanta declarata		Standard armonizat
Masa pe unitate de suprafata gr/m²	200 (+/- 20)		SR EN ISO 9864:2007
Gros.la sarc. 2 kN/m² mm	1.20 (+/- 0.2)		SR EN ISO 9863-1: 2017
Rezistenta la rupere MD/CD kN/m	4.0 (- 0.6)	4.0 (- 0.6)	SR EN ISO 10319:2015
Alungirea la rupere MD/CD %	70% (+/-)21%	80% (+/-) 24%	SR EN ISO 10319:2015
Poansonare cu CBR N	800 (- 120)		SR EN ISO 12236:2007
Perforare dinamica mm	38 (+ 9.5)		SR EN ISO 13433:2007
Permeabilitatea VIH50 l/m² s mm/s	110 (- 33)		SR EN ISO 11058:2010
Marimea porilor la O90 in μm	75 (+/- 22.5)		SR EN ISO 12956:2010
Energia de absorbtie MD/CMD kJ/m²	1.4 / 1.6		SR EN ISO 10319:2015
Perforarea cu piramida N	N/A		SR EN 14574:2015
Curgerea in plan (i=1;20 kPa) l/m/h	7.9 (-0.8)		SR EN ISO 12958:2010
Durabilitatea	A se acoperi in termen de 14 zile de la instalare.		SR EN 12224:2001
	Prevazut sa fie durabil minimum 100 ani , in pamanturi naturale cu 4 < pH < 9 si temperatura <25°C		SR EN 12447:2003
Eficienta protectiei %	-300 kPa -600 kPa -1200 kPa	N/A N/A N/A	SR EN 13719:2016

8. Performanța produsului identificat mai sus este în conformitate cu setul de performanțe declarate. Această declarație de performanță este eliberată în conformitate cu Regulamentul (UE) nr. 305/2011, pe răspunderea exclusivă a fabricantului identificat mai sus.

Semnata pentru și în numele fabricantului de către:

Director Productie Petre Popescu

in Rm. Valcea,

la data de 20.11.2018



1. Identificare producator

PRODUCATOR:	SC MINET SA Romania Str Depozitelor 12, 240380, Râmnicu Vâlcea, judet Vâlcea
	Tel: 0250 737473 office@minet.ro ; www.minet.ro
Telefon urgenta	Tel: 004 0250 737473 Fax: 004 0250 733758

Tabelul nr.1 Proprietati si standarde aplicabile ptr Terasin NS

Caracteristici esentiale	Performanta declarata	Standard armonizat
Masa gr/m ²	200 (+/- 20)	SR EN ISO 9864:2007
Grosime la 2 kPa mm	1.20 (+/- 0.2)	SR EN ISO 9863-1: 2017
Energia abs. MD/CMD kJ/m ²	1.4 / 1.6	SR EN ISO 10319:2015
Rezistenta MD/CD kN/m	4.00 (-0.6) 4.00 (-0.6)	SR EN ISO 10319:2015
Alungire MD/CD %	70% (+/-)21% 80% (+/-) 24%	SR EN ISO 10319:2015
CBR N	800 (- 120)	SR EN ISO 12236:2007
Perforare dinamica mm	38 (+ 9.5)	SR EN ISO 13433:2007
Permeabilitate VIH50 mm/s	110 (- 33)	SR EN ISO 11058:2010
Marime pori O90 in microni	75 (+/- 22.5)	SR EN ISO 12956:2010
Perforarea cu piramida N	N/A	SR EN 14574:2015
Curgerea in plan (i=1;20 kPa) l/m/h	7.9 (- 0.8)	SR EN ISO 12958:2010

2. Identificarea produsului

Denumire articol	Terasin NS 200
Compozitie chimica	Poliester Polyethylene Terephthalate CAS N° 25038 – 59 – 9
Mod de obtinere	Consolidare mecanica si termica

3. Ingrediente periculoase

Nu contine ingrediente periculoase. Nu este tratat cu substante FR.

4. Proprietati fizico-chimice

Aspect	Solid, sub forma de pasla	Temperatura autoaprinere	Nu este autoinflamabil
Culoare	Alba, verde, gri, neagra in diferite nuante		Flamabilitate 1
Miros	Fara	Clasificare HMIS	Sanatate 0
Solubilitate in apa	Insolubil		Pericole fizice 0

5. Date referitoare la pericolul de incendiu si explozie

Temperatura de aprindere	Mai mare de 520 C, conform DIN 51794
Agenti de stingere	Apa, spuma, bioxid de carbon, aplicabili conform normelor PSI de la fiecare locatie specifica
Riscuri speciale	Se vor utiliza masti de oxigen pentru a preveni inhalarea fumului in timpul stingerii incendiului, cat si haine de protectie, conform normelor PSI. Pe durata incendiului se pot genera vapori iritanti si gaze toxice.

6. Efecte asupra sanatatii datorate expunerii la material si recomandari

Expunerea la acest produs nu are efecte adverse asupra sanatatii oamenilor. Mai mult, observatiile efectuate de-a lungul timpului, au aratat ca nu apar iritatii ale pielii in contact cu poliesterul. Ca toate materialele textile, produsul poate genera scame atunci când este prelucrat prin taiere, spanuire sau alte metode. Unele persoane, de exemplu, cele cu astm, bronșită sau alte probleme respiratorii, nu pot tolera concentrații mari de fibre în aer. De aceea, asigurarea unei ventilatii corespunzatoare a locului de munca sau purtarea de masti filtrante este recomandata.

7. Masuri de prim ajutor

Inhalare	Scamele mici pot provoca iritatii. Nu este necesara o interventie specifica
Contactul cu pielea	Nu s-au semnalat iritatii ale pielii. Totusi, se va evita contactul cu rani deschise, zgarieturi, etc.
Contactul cu ochii	Pot aparea iritatii ale ochilor. Se recomanda spalarea din abundenta cu apa cel putin 5 minute.
Ingerare	Produsul nu este toxic

8. Măsuri la deversare accidentală și eliminare

Nu este aplicabil. Totusi, resturile rezultate de la taiere, croire, etc, pot fi tratate ca orice alt deșeu nepericulos, conform legislatiei in vigoare.
Terasin NS 200 este reciclabil.

9. Marcare, ambalare, transport și depozitare

Articolele se prezinta sub forma de baloti, ambalati in saci de folie de polietilena, legati la capat cu sarma de ambalare si etichetati corespunzator. Materialul se transporta cu mijloace de transport curate, acoperite, ferite de umezeala si murdarie. Transportul materialului nu este clasificat ca si periculos. Depozitarea se face in spatii inchise, departe de conducte de abur, apa, surse de caldura sau surse de aprindere.
A se acoperi in termen de 1 luna de la instalare.

10. Alte informatii

Gama are aplicatii în industria constructiilor, ca atare, sau impreuna cu alte materiale. Informatiile continute în aceasta Fisa tehnica de securitate au fost stabilite pe baza cunoștințelor, informațiilor și presupunerilor noastre la data publicării acestui document. Aceste informații sunt date cu scop informativ pentru a permite manipularea, fabricarea, depozitarea, transportul, distribuția, utilizarea și eliminarea în condiții corespunzătoare de securitate și de aceea nu pot fi considerate drept un certificat de calitate sau de garanție. Informatiile de mai sus se referă numai la produsul specificat și este responsabilitatea utilizatorului produsului sa se asigure ca acesta este corespunzator pentru aplicarea si modalitatea de utilizare prevazute. Gama este certificata CE de catre INCERTRANS-OC - Organism de certificare notificat de Comisia Europeana pentru atestarea conformitatii produselor pentru constructii nr. 1833-CPR-0053 si este autorizata AFER, cu Autorizatia de furnizor feroviar Seria AF nr.7337

INCERTRANS



S.C. INSTITUTUL DE CERCETĂRI ÎN TRANSPORTURI INCERTRANS S.A.

ORGANISM DE CERTIFICARE INCERTRANS-OC NOTIFIED N° 1833

Calea Grivitei, nr. 391-393, Sector 1, București
Transport Research Institute INCERTRANS
Certification Body: INCERTRANS-OC

Calea Grivitei, no. 391-393, district 1, Bucharest
Phone: +40 (21) 316.23.37 E-mail: incertrans@incertrans.ro
Fax: +40 (21) 316.13.70 Web: <http://www.incertrans.ro>

acreditat pentru
CERTIFICARE



SR EN ISO/CEI 17065:2013
CERTIFICAT DE ACREDITARE
ON 068

CERTIFICAT DE CONFORMITATE PENTRU CONTROLUL PRODUCȚIEI ÎN FABRICĂ 1833-CPR-0053

În conformitate cu Regulamentul (UE) nr. 305/2011 al Parlamentului European și al Consiliului din 9 martie 2011 (Regulamentul Produselor pentru Construcții sau CPR), acest certificat se aplică produsului/produselor pentru construcții:

GEOTEXTILE: TERASIN NS®, TERASIN NS® (RDG)

Utilizare preconizată: filtrare; armare; filtrare și separare; armare și separare; filtrare și armare; filtrare, armare și separare la construcția de drumuri și a altor căi de circulație; filtrare; armare; filtrare și separare; armare și separare; filtrare și armare; filtrare, armare și separare în construcția de căi ferate; filtrare; armare; filtrare și separare; armare și separare; filtrare și armare; filtrare, armare și separare la lucrările de terasamente, fundații și structuri de susținere; filtrare; drenaj; filtrare și separare; filtrare și drenaj; filtrare, separare și drenaj în sistemele de drenaj; filtrare; armare; filtrare și separare; armare și separare; filtrare și armare; filtrare și separare în sistemele antierozionale; filtrare; armare; protecție; filtrare și separare; armare și separare; filtrare și armare; armare și protecție; filtrare, armare și separare la construcția de rezervoare și baraje; filtrare; armare; protecție; filtrare și separare; armare și separare; filtrare și armare; armare și protecție; filtrare, armare și separare la construcția de canale; protecție la construcția tunelurilor și structurilor subterane; filtrare; armare; protecție; filtrare și separare; armare și separare; filtrare și armare; armare și protecție; filtrare, armare și separare în proiectele de depozitare a deșeurilor solide.

Parametrii produsului pentru construcții < niveluri și clase de performanță ale produsului GEOTEXTILE: TERASIN NS®; TERASIN NS® (RDG) > după cum sunt definiți de către fabricant pentru declarația de performanță, se regăsesc în addendum (2 pag.), parte integrantă a certificatului.

Introdus pe piață sub numele sau marca comercială a:

S.C. MINET S.A.

Râmnicu Vâlcea, str. Depozitelor, nr. 12, județul Vâlcea
și produs în unitatea de producție:

S.C. MINET S.A.

Râmnicu Vâlcea, str. Depozitelor, nr. 12, județul Vâlcea

Acest certificat atestă faptul că toate prevederile privind evaluarea și verificarea constanței performanței descrise în Anexa ZA a standardului/standardelor:

EN 13249:2016;
EN 13250:2016;
EN 13251:2016;
EN 13252:2016;
EN 13253:2016;
EN 13254:2016;
EN 13255:2016;
EN 13256:2016;
EN 13257:2016;

sub sistemul 2+ sunt aplicate, iar

controlul producției în fabrică este evaluat pentru a fi în conformitate cu cerințele aplicabile.

Acest certificat a fost emis inițial la data: 06.05.2014, este valabil atâta timp cât cerințele stipulate pe verso sunt îndeplinite și rămâne valabil atâta timp cât nici standardul armonizat, produsul pentru construcții, metodele de EVCP și nici condițiile de producție în fabrică nu sunt modificate semnificativ, cu excepția suspendării sau retragerii certificatului de către organismul notificat de certificare a controlului producției în fabrică.

07.07.2017

DIRECTOR TEHNIC INCERTRANS-OC
Ing. Nicoleta IONESCU

Organismul de Evaluare și Verificare a Constanței Performanței INCERTRANS-OC al produsului < GEOTEXTILE: TERASIN NS®, TERASIN NS® (RDG) > utilizat în construcții, își rezervă dreptul de a menține, de a suspenda sau de a reține valabilitatea prezentului certificat, identificat cu nr. 1833-CPR-0053, dacă constată că fabricantul S.C. MINET S.A. nu respectă/schimbă cerințele privind metodele de încercare și/sau controlul producției în fabrică, incluse în standardul armonizat, utilizate la evaluarea performanței caracteristicilor declarate, iar produsul pentru construcții și condițiile de producție în fabrică sunt modificate semnificativ.

Etape de supraveghere a valabilității certificatului:

Semnătură autorizată

IONESCU NICOLETA

(nume, prenume, calitate în cadrul OC)

Valabil până la data: 07.07.2019

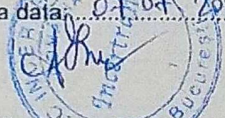


Semnătură autorizată

IONESCU NICOLETA

(nume, prenume, calitate în cadrul OC)

Valabil până la data: 07.07.2020

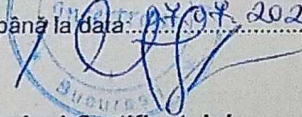


Semnătură autorizată

IONESCU NICOLETA

(nume, prenume, calitate în cadrul OC)

Valabil până la data: 07.07.2021



Istoricul Certificatului

Revizia	Descriere	Data emiterii	Numarul certificatului inlocuit
0.0	Certificat inițial	06.05.2014	1833-DPC-96/581/EC/0065-2010 1833-DPC-96/581/EC/0066-2010 1833-DPC-96/581/EC/0067-2010 1833-DPC-96/581/EC/0068-2010 1833-DPC-96/581/EC/0069-2010 1833-DPC-96/581/EC/0070-2010 1833-DPC-96/581/EC/0071-2010 1833-DPC-96/581/EC/0072-2010
1.0	Recertificare I	07.07.2017	1833-CPR-0053 (emis in 06.05.2014)

Declarație de performanță și marcarea produsului

În îndeplinirea condițiilor și termenilor necesari menținerii performanței caracteristicilor declarate, producătorul, va întocmi o declarație de performanță a produsului și va putea aplica legal marcul CE urmat de numărul de identificare al organismului de certificare INCERTRANS OC – 1833, îndeplinind totodată și prevederile Regulamentului (UE) 305/2011-Anexa III: Declarația de Performanță.

CERTIFICAT

DE VERIFICARE A ASIGURĂRII CONTROLULUI PRODUCȚIEI ÎN FABRICĂ

Numărul: CPF-092-2021

Pentru:

DALE, PAVELE ȘI BORDURI DE BETON

Utilizare:

Dale și pavele: La exterior pentru pavări de drumuri supuse circulației pietonale și circulației vehiculelor, piste de biciclete, parcuri, șosele, spații industriale, benzinării, stații de autobuz.

Borduri: pentru delimitarea zonelor pavate și asfaltate.

Produs de:

"RADIAL PLUS" S.R.L.,

str. Varnița, 16/1, mun. Chișinău, Republica Moldova.

Loc de producție: str. Varnița, 16/1, mun. Chișinău, Republica Moldova.

Produsele sunt supuse de către producător încercărilor inițiale de tip pentru produs și unui control al procesului de producție care cuprinde toate măsurile necesare pentru îndeplinirea și menținerea cerințelor specificate în documentele de referință. OC Certmatcon a efectuat verificarea asigurării controlului producției în fabrică de către producător conform sistemului 4, a evaluat rapoartele privind încercările inițiale de tip și va efectua supravegherea continuă pentru asigurarea CPF.

Acest certificat atestă îndeplinirea prevederilor privind asigurarea controlului producției în fabrică descrise în:

SM SR EN 1339:2010/ SM SR EN 1339:2010/AC:2010

SM SR EN 1338:2010/ SM SR EN 1338:2010/AC:2010

SM SR EN 1340:2010/ SM EN 1340:2010/AC:2010

Acest certificat a fost emis prima dată la data de 18.02.2021, modificat la 18.02.2022 și va rămâne valabil până la data de 17.02.2024, atât timp cât standardul armonizat, produsul pentru construcții, metodele de evaluare a constanței performanței și condițiile de producție în fabrică nu sunt modificate esențial.

Acest certificat poate fi suspendat sau retras dacă se constată că nu se mențin condițiile în baza cărora a fost emis.



Director General

Ion PUHA

Certificat valabil doar cu condiția vizării anuale.

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 0115664L
KRS 0000147719

www.tuv.com





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

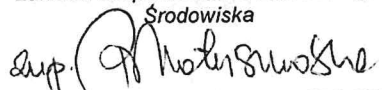
Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2025.04.15 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

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

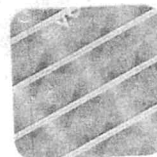
Wytwórca / producer:

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

UNIRUBBER SP Z O.O
Zielonka 17 59-940 Węgliniec
NIP 951-00-24-895 REGON 0115664r
KRS 0000147719
-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

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

*Na życzenie Klienta możliwe jest wykonanie innej frakcji granulatu.

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

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.

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

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>	Marcin Marczak	Stanowisko <i>Position</i>	Koordinator ds. technologii <i>Technology coordinator</i>	Data <i>Date</i>	14.04.2021
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UNIRUBBER SP. Z O.O.
 Zielonka 17 59-940 Wieliczka
 NIP: 651-00-24-895 REGON: 14115504
 KRS: 00001...

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

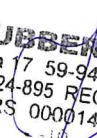
*Na życzenie Klienta możliwe jest wykonanie innej frakcji granulatu.


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 01156646
 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 <i>Type of material</i>	Odpady na bazie różnych kauczuków (głównie EPDM). <i>Scrap based on different types of rubber (mainly EPDM).</i>		
Kolor <i>Color</i>	Czarny. <i>Black.</i>		
Fracja* <i>Grain size</i>	1,0 – 4,0 mm		
Własności fizyczne i chemiczne: <i>Physical and chemical properties:</i>	Wartość <i>Value</i>	Jednostka <i>Unit</i>	Norma <i>Standard</i>
Ciężar nasypowy <i>Bulk density</i>	< 550	g/dm ³	PN-EN ISO 60
Analiza sitowa: <i>Sieve analysis:</i>			
Granulki poniżej 1 mm <i>Granules below 1 mm</i>	Max 1,0	%	PN-ISO 2591-1
Granulki powyżej 4 mm <i>Granules above 4 mm</i>	Max 10,0	%	
Wtrącenia tkaniny <i>Textile impurities</i>	Max 1,0	%	
Pozostałe własności: <i>Other:</i>			
Kształt <i>Shape</i>	Mieszanina różnych kształtów, cząsteczki sześciokątne (kubiczne, heksagonalne). <i>Mixture of different size, cubical particles.</i>		
Opakowanie <i>Packaging</i>	Worki wentylowe à 25 kg lub Big-Bag à 1 000 kg na drewnianych paletach o wymiarach 1 000 x 1 200 mm. <i>PE valve sacks 25 kg each or big bags 1000 kg placed on a wooden pallet of dimension of 100x120cm.</i>		


*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>	Marcin Marczak	Stanowisko <i>Position</i>	Koordinator ds. Technologii <i>Technology Coordinator</i>	Data <i>Date</i>	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



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-60211-0760/20

HYGIENIC CERTIFICATE

ORYGINAL

NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE

Wyrób / product: **CHEMOLAN M50**

Zawierający / containing: diizocyjanian metylenodifenylu (izomery i homologi), diizocyjanian m-toluilenu, diizocyjanian tolueno-2,4-diyłu, diizocyjanian 2,4-toluenu, poliol

Przeznaczony do / destined: stosowania jako jednoskładnikowy klej poliuretanowy do klejenia granulatu gumowego i granulatu EPDM zarówno przy produkcji nawierzchni sportowych jak i nawierzchni bezpiecznych 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. Wyrób przechowywać w miejscu niedostępnym dla dzieci. Pomieszczenie, po zastosowaniu wyrobu, należy wietrzyć do zaniku zapachu przed oddaniem do użytkowania. Utwardzony klej nie może zawierać więcej niż 0,1% wolnego MDI i więcej niż 0,1% wolnego TDI. Atest nie obejmuje wyrobów finalnych wytworzonych na bazie niniejszego kleju.

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:

Interchemol S.A.
55-120 Oborniki Śląskie
ul. Siemianicka 55

Niniejszy dokument wydano na wniosek / this certificate issued for:

Interchemol S.A.
55-120 Oborniki Śląskie
ul. Siemianicka 55

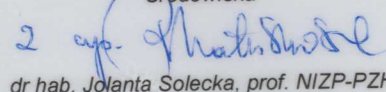
Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2026.01.20 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

The certificate may be corrected or cancelled after appropriate motivation. The certificate loses its validity after 2026.01.20 or in the case of changes in composition or in technology of production.

Data wydania atestu higienicznego: 20 stycznia 2021

The date of issue of the certificate: 20th January 2021

Kierownik
Zakładu Bezpieczeństwa Zdrowotnego Środowiska


dr hab. Jolanta Solecka, prof. NIZP-PZH



NATIONAL DECLARATION OF PERFORMANCE

No. 070/1

1. **Name and trade name of the construction product:**

Magnoplast drainage pipes DN 50-160 mm

2. **Designation of the construction product:**

Drainage pipe of unplasticised polyvinyl chloride (PVC-U), perforated and unperforated, Z series, SN4 or SN 8 without synthetic covering

3. **Intended use or uses:**

Construction of wick drain systems, leach drain systems, disposal systems, also in communication engineering

4. **Name and address of the manufacturer's headquarters and the product manufacturing site:**

Magnoplast Sp. z o.o., Sieniawa Żarska 69, 68-213 Lipinki Łużyckie

5. **Name and address of the authorised representative, if applicable:**

NOT APPLICABLE

6. **National system used for the assessment and verification of the constancy of performance:**

Conformity assessment system: 4

7. **National technical specification:**

7a. Polish Standard (PN) for the product:

PN-C-89221:1998/AZ1:2004

"Plastic pipes – corrugated drainage pipes made out of unplasticised polyvinyl chloride (PVC-U)"

Name of the accredited certification body, accreditation number and national certificate number or name of accredited laboratory/laboratories and accreditation number:

NOT APPLICABLE

7b. National Technical Assessment:

NOT APPLICABLE

Technical assessment body/National technical assessment body:

NOT APPLICABLE

Name of the accredited certification body, accreditation number and certificate number:

NOT APPLICABLE

8. Declared performance:

Basic characteristics of the construction product for the intended use(s)	Declared performance	Remarks
Material properties	Unplasticised polyvinyl chloride with the necessary components for the production of pipes	
Dimensions	According to the marking on the product: Z – DN50-1.2, DN80-1.2, DN100-1.2, DN125-1.5, DN160-1.5	
Appearance	Smooth surfaces without blisters, without non-homogenised parts of the raw material and foreign inclusions	
Ring stiffness	SN \geq 4 kN/m ² for pipes: DN80, DN100, DN125, DN160 SN \geq 8 kN/m ² for pipes: DN50	
Impact resistance	TIR \leq 10%, zone A	
Impact-tensile resistance	No cracks	
Joint strength	Max. extension: ΔL 10%	

- 9. The performance of the specified above product fully conforms with the declared performance listed in Section 8. This National Declaration of Performance is issued in conformity with the Polish Act of 16 April 2004 on construction products and under the sole responsibility of the product manufacturer.**

Signed on behalf of the manufacturer by:

Grześkowiak Paweł - Quality Control Department Manager

.....
(name and position)

Sieniawa Żarska, 08.02.2019

.....
(place and date of issue)



.....
(authorised person's signature)



S.R.L. "CertElectroTest"
Certificare Voluntară

CERTIFICAT DE CONFORMITATE

Nr. de înregistrare **OCpr - CET 13 C230016-23**

Data emiterii 25 ianuarie 2023

Valabil pînă la 25 ianuarie 2024

ORGANISMUL DE CERTIFICARE OCpr - CET

ORGANISMUL DE CERTIFICARE PRODUSE (OCpr) din cadrul S.R.L. "CertElectroTest" (CET),
Adresa: str. Alba Iulia, 75A, of. 402, MD 2071, mun. Chișinău; tel.: +373 69585111, +373 69304950; e-mail: cet3.office@gmail.com

**PRIN PREZENTUL DOCUMENT SE CONFIRMĂ FAPTUL, CĂ PRODUSELE IDENTIFICATE ASTFEL:
DENUMIREA / DESCRIEREA**

Cabluri și conductoare electrice conform anexei, unde (...) - cifre și/sau litere ce reprezintă secțiunea produsului în mm² în variantele modelului
Contract de livrare: nr. 0102/19MD din 30.12.2018 cu OOO «Запорожский завод цветных сплавов», Ucraina

Codul NCM

8544

SÎNT CONFORME CU CERINȚELE OBLIGATORII STABILITE ÎN :

Documentele normative indicate în anexa

PRODUCĂTOR

OOO «Запорожский завод цветных сплавов», Ucraina

Codul țării

UA

SOLICITANT

"VOLTA" SRL, str. Pădurii 19, mun. Chișinău, Republica Moldova

Codul IDNO

1003600028059

CERTIFICATUL ESTE ELIBERAT ÎN BAZA

Raport de evaluare final Nr. 004-RE din 17.01.2023, eliberat de OCP din cadrul CET, mun. Chișinău, str. Alba Iulia nr.75A, of. 402, MD 2071, RM; Rapoarte de încercări Nr. 368/23 din 16.01.2023, 369/23 din 16.01.2023 eliberate de LÎ CERTIFICARE SRL, MD 2001, mun. Chișinău, bl.Gagarin 2, certificat de acreditare LÎ-134 din 04.07.2022.

INFORMAȚIE SUPLIMENTARĂ:

Schema de certificare 2. Certificatul este valabil doar în cazul asigurării cu informație în limba de stat a fiecărei unități de produs conform legislației în vigoare. Contract de prestări servicii Nr. 001 din 30.09.2020.



**Conducătorul organismului
de certificare**

Popescu Diana



S.R.L. "CertElectroTest" Certificare Voluntară

ANEXĂ LA CERTIFICATUL DE CONFORMITATE

Nr. OCpr - CET 13 C230016-23

din 25 ianuarie 2023

Lista produselor concrete asupra cărora se extinde acțiunea certificatului de conformitate

Nr.	Denumirea produsului	Documentul normativ de conformitate
1	Cabluri electrice de energie (putere) clasa tensiunii pînă sau egală cu 1000 V tip: ВВГ, ВВГнг, ВВГнгд, ВВГнг-LS, ВВГнг-FRLS, ВБ6Шв, ВБ6Швнг, ВБ6Швнгд, ВБ6Швнг-LS, ВВГ3, ВВГ3з, ВВГ5, ВВГ3нг, ВВГ3нгд, ВВГ5нг, ВВГ3нгд, ВВГ3нгд, ВВГ3нгд-LS, ВВГ5нгд, ВВГ5нг-LS, ВВГ-П, ВВГ3-П, ВВГ5-П, ВВГнг-П, ВВГ3нг-П, ВВГ5нг-П, ВВГнг-П-LS, ВВГнгд-П, ВВГ3нгд-П, ВВГ5нгд-П, NYM, ВВГз, ВВГзнг, ВВГзнгд, ПвВГ, ПвБ6Шв, N2XH, (N) HXH F 180/E30, (N) HXH F 180/E90	SM IEC 60502-1+A1:2019 cap. 4, 5, 6, 7 SM IEC 60227-4:2016 cap.2.1-2.4;
2	Conductoare electrice cu izolația din PVC clasa tensiunii pînă la 1000V tip: ШВВП, ПВС, ПВСнг, ПВСнгд, ПВСнг-LS, YSLY-JB, CYKYL-F	SM IEC 60227-5:2016 cap.6.1, 6.2, 6.3, 6.4
3	Conductoare electrice cu izolația din PVC clasa tensiunii pînă la 1000V tip: ПВ1, ПВ3, ПВ5, ПВ1нг, ПВ3нг, ПВ5нг, ПВ1нгд, ПВ3нгд, ПВ5нгд, ПВ1нг-LS, ПВ3нг-LS, ПВ5нг-LS, АПВ, АППВ, ППВ, Н07V-K, Н07V-U, NYIFI, NYIFT-F, Y05V-K, H05V-U	SM SR EN 50525-2-31:2013 SM SR EN 50525-1:2013 SM IEC 60227-1:2016 cap.2.1-2.4
4	Cabluri electrice de energie (putere) clasa tensiunii pînă sau egală cu 1000 V tip: АВВГ, АВВГнг, АВВГнгд, АВВГнг-LS, АВБ6Шв, АВБ6Швнг, АВБ6Швнгд, АВВГз, АВВГзнг, АВВГзнг-LS, АВВГзнгд, АПвБШв, АПвВГ	SM IEC 60502-1+A1:2019 cap. 4, 5, 6, 7
5	Cabluri electrice de energie (putere) clasa tensiunii pînă sau egală cu 1000 V tip: КГ, Кгг, КГН, КГТН	SM IEC 60245-4:2016 SM IEC 60245-1:2016
6	Cabluri electrice de energie (putere) clasa tensiunii pînă sau egală cu 1000 V tip: КГВВ, КГВВз, КГВВнгз, YSLY-OZ	SM IEC 60502-1+A1:2019 cap. 4, 5, 6, 7 SM SR EN 50525+1:2013 SM IEC 60227-1:2016 cap.2.1-2.4
7	Cabluri electrice de control clasa tensiunii pînă sau egală cu 1000 V tip: КВВГ, КВВГз, КВВГнг, КВВГнгз	SM EN 50575:2016 cap.4, 7



Conducătorul organismului de certificare

Popescu Diana.

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® S131.09**



· 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-tolyldiene 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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(Contd. of page 1)

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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: **STOBIELAST® S131.09**

(Contd. of page 2)

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 (CO₂).
- **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.

(Contd. on page 4)

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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 ³ Long-term value: 0.02 mg/m ³ 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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Trade name: **STOBIELAST® S131.09**

(Contd. of page 4)

· **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.· **Change in condition**

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

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1.07 g/cm³· **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:**

· Dynamic at 20 °C:	4,700 mPas
· Kinematic:	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.

(Contd. on page 6)

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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- **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® S131.09**

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

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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-tolyldiene 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***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 ⚠ 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	25-50%
26471-62-5	m-tolylidene diisocyanate ⚠ 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	≤2.5%

· 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_x)
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂).
- **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 ³ Long-term value: 0.02 mg/m ³ 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:**

· Form:	Liquid
· Colour:	Light Amber
· Odour:	Characteristic
· Odour threshold:	Not determined.

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

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

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapour pressure:** Not determined.· **Density at 20 °C:** 1.07 g/cm³· **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:**

· Dynamic at 20 °C:	4,700 mPas
· Kinematic:	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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- **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

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, ADN, IMDG, IATA | not regulated |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | not regulated |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | not regulated |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | not regulated |
| · 14.5 Environmental hazards: | Not applicable. |
| · 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": | 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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according to 1907/2006/EC, Article 31

Printing date 25.11.2020

Revision: 25.11.2020

Trade name: **STOBIELAST® S131.87**

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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

Stockmeier Urethanes France SAS
Z.I. Est-8, rue de l'Industrie . F-68700 Cernay, France

Company
Harke Romania SCS
Str. Drumul Sarii 17e
060151 BUCURESTI
ROUMANIE

Test Report EN 10204 3.1

Date
12.09.2023
Purchase order item/Date
Relicat commande 5159615 / 31.08.2023
Delivery item/Date
87662044 000010 / 12.09.2023
Order item/Date
5179320 000010 / 31.08.2023
Customer number Fax (Orderer)
309012 +40311068242

Material: Our / Your description
2201318710002 STOBIELAST® S 131.87 K220DRUM

Batch 12385018 / Quantity 16 PC

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
NCO CONTENT	%	10,30	9,80	11,40	L14-L18
VISCOSITY SPINDLE 3 SPEED 20 AT 20°C	mPa.s	2575	1200	4800	L13-03

We hereby certify that the above-mentioned product has been inspected and analysed according to the terms and conditions of the contract or order and, unless otherwise agreed, meets the corresponding specifications.

The statements and information contained in this certificate refer to values obtained by our quality control laboratory with the analytical methods and measuring devices mentioned in the certificate. This certificate does not constitute a legal guarantee for the use of the product for a specific purpose.

This document has been prepared electronically and is valid without signature.

Yours faithfully
Stockmeier Urethanes France SAS

Quality lab

Stockmeier Urethanes France SAS
Z.I. Est-8, rue de l'Industrie . F-68700 Cernay, France

Company
Harke Romania SCS
Str. Drumul Sarii 17e
060151 BUCURESTI
ROUMANIE

Test Report EN 10204 3.1

Date
29.09.2023
Purchase order item/Date
RO 1562 / 26.09.2023 / 26.09.2023
Delivery item/Date
87680808 000030 / 02.10.2023
Order item/Date
5204083 000030 / 26.09.2023
Customer number Fax (Orderer)
309012 +40311068242

Material: *Our / Your description*
2201000010002 Stobielast® S 100.00 K200DRUM

Batch 12374419 / Quantity 1 PC

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
NCO CONTENT	%	8,47	7,50	8,50	L14-L18
VISCOSITY SPINDLE 1 SPEED 20 AT 20°C	mPa.s	12	10	30	L13-03
DRY EXTRACT AT 130°C	%	50,63	48,00	52,00	L04-04

Batch 12377631 / Quantity 2 PC

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
NCO CONTENT	%	7,82	7,50	8,50	L14-L18
VISCOSITY SPINDLE 1 SPEED 20 AT 20°C	mPa.s	12	10	30	L13-03
DRY EXTRACT AT 130°C	%	48,94	48,00	52,00	L04-04
WATER CONTENT	%	0,0117	0,0000	0,0500	

Batch 12386525 / Quantity 1 PC

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
NCO CONTENT	%	7,69	7,50	8,50	L14-L18
VISCOSITY SPINDLE 1 SPEED 20 AT 20°C	mPa.s	14	10	30	L13-03
DRY EXTRACT AT 130°C	%	48,94	48,00	52,00	L04-04
WATER CONTENT	%	0,0206	0,0000	0,0500	

We hereby certify that the above-mentioned product has been inspected and analysed according to the terms and conditions of the contract or order and, unless otherwise agreed, meets the corresponding specifications.

Harke Romania SCS
060151 BUCURESTI

Delivery item/Date
87680808 000030/02.10.2023

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The statements and information contained in this certificate refer to values obtained by our quality control laboratory with the analytical methods and measuring devices mentioned in the certificate. This certificate does not constitute a legal guarantee for the use of the product for a specific purpose.

This document has been prepared electronically and is valid without signature.

Yours faithfully
Stockmeier Urethanes France SAS

Quality lab

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

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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.

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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_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂).
- **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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- **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

<i>WEL</i>	<i>Short-term value: 966 mg/m³, 200 ppm</i>
	<i>Long-term value: 724 mg/m³, 150 ppm</i>

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

<i>WEL</i>	<i>Short-term value: 0.07 mg/m³</i>
	<i>Long-term value: 0.02 mg/m³</i>
	<i>Sen; as -NCO</i>

· **DNELs**

123-86-4 n-butyl acetate

<i>Dermal</i>	<i>DNEL Long terme/Effet systémique (opérateur)</i>	<i>7 mg/kg bw/jour (Opérateur)</i>
<i>Inhalative</i>	<i>DNEL Long terme/Effet systémique (opérateur)</i>	<i>480 mg/m³ (Opérateur)</i>

- **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:**

· Form:	Fluid
· Colour:	Amber coloured
· Odour:	Uncharacteristic.
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

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

· **Flash point:** 32 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 370 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

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

· **Explosion limits:**

· Lower:	1.2 Vol %
· Upper:	7.5 Vol %

· **Vapour pressure at 20 °C:** 10.7 hPa

· Density at 20 °C:	0.99 g/cm ³
· 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:**

· **Dynamic at 20 °C:** 25 mPas

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Kinematic:	Not determined.
· Solvent content:	495.0 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.
- **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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· 14.4 Packing group · ADR, IMDG, IATA	<i>III</i>
· 14.5 Environmental hazards:	<i>Not applicable.</i>
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	<i>Warning: Flammable liquids.</i> <i>30</i> <i>F-E,S-D</i> <i>E</i>
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	<i>5L</i> <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· Transport category · Tunnel restriction code	<i>3</i> <i>D/E</i>
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	<i>5L</i> <i>Code: E3</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 300 ml</i>
· UN "Model Regulation":	<i>UN 1123 BUTYL ACETATES MIXTURE, 3, III</i>

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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