INFOSHEET

CEPRO®
LEADING IN WELDING SAFETY

HERCULES LASDEKEN

Omschrijving
Hercules is een glasvezeldoek, voorzien van zowel een dubbelzijdige PU-coating (ter verhoging van de slip vastheid en stevigheid) alsook een organische coating voor kortdurende hoge belastingen.

Eigenschappen
Hercules is uitermate geschikt voor horizontaal gebruik en als las- of slijpdeken bij hoge temperaturen en bij hoge mechanische belasting.

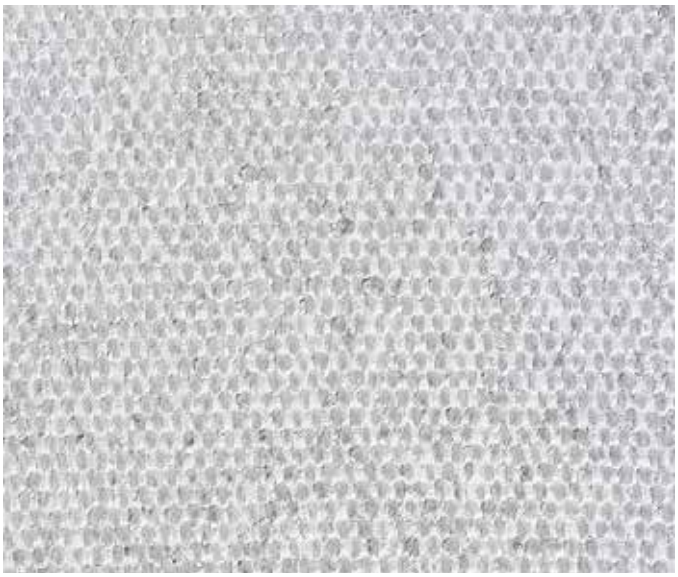
Temperatuur
De maximale temperatuurbestendigheid is 750°C (kortdurend tot ca. 900°C.)

Technische Gebruiksinformatie

- CEPRO adviseert de toepassing van meerdere lagen voor een optimale bescherming.
- Gebruik lasdekens altijd in een hoek van tenminste 15 graden.
- De vermelde temperaturen zijn indicatief, u dient altijd het gekozen product vooraf te testen op geschiktheid.
- Controleer lasdekens regelmatig op scheuren en/of andere onvolkomenheden. Vervang beschadigde dekens waar nodig.
- Vanwege het zeer gevarieerde gebruik van lasdekens, kan er geen garantie worden verleend op het gebruik er van. De eindgebruiker is verantwoordelijk om te bepalen of de lasdeken geschikt is in zijn specifieke situatie en voldoende bescherming biedt tijdens de uit te voeren werkzaamheden.
- CEPRO lasdekens worden aan de snijkanten afgewerkt met hoogwaardig Kevlar garen.

Beschikbare afmetingen

Hercules lasdeken, 100 x 100 cm	56.50.71
Hercules lasdeken, 200 x 100 cm	56.50.72
Hercules lasdeken, 200 x 200 cm	56.50.75
Hercules lasdeken, 200 x 300 cm	56.50.76
Hercules lasdeken, 300 x 300 cm	56.50.77
Hercules lasdeken, 400 x 300 cm	56.50.78
Hercules lasdeken, 400 x 400 cm	56.50.79
Deel van rol, breedte 100 cm	56.50.07.1000
Volle rol 25 m[1], breedte 100 cm	56.50.07.1025
Op maat gemaakt	56.50.70



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4.2 Classement / *Classification*

Le produit, Couverture de soudage CEPRO HERCULES, en fonction de son comportement au feu, est classé / *The product, CEPRO Welding Blanket HERCULES, based on its reaction to fire behavior, is classified*: **A2.**

Le classement complémentaire en relation avec la production de fumée est / *Complementary classification in relation to smoke production is:* **s1.**

Le classement complémentaire en relation avec les gouttelettes/particules enflammées est / *Complementary classification in relation to fall of flaming droplets/particles is*: **d0.**

Le format du classement de réaction au feu pour les produits de construction, à l'exception des revêtements de sol et des produits d'isolation thermique pour conduites linéaires est / *The format of the reaction to fire classification for construction products excluding flooring and linear pipe thermal insulation products is:*

Comportement au feu *Fire behaviour*		**Production de fumée** *Smoke production*			**Gouttelettes enflammées** *Flaming droplets*	
A2	**-**	**s**	**1**	**,**	**d**	**0**

Autrement dit / *In other words*, A2 – s1, d0

Classement de réaction au feu / *Reaction to fire classification* :	A2-s1,d0

4.3 Champ d'application / *Field of application*:

Le présent classement est valable pour les paramètres suivants liés au produit / *The classification is valid for the following product parameters* :

Composition : Aucune variation autorisée / *No variation allowed*

Epaisseur / *Thickness*: 1.6 mm

Masse surfacique / *Surface density*: 1.22 kg/m²

Masse volumique / *Density* : 762.5 kg/m³

Face exposée / *Exposed face* : Faces identiques / *Identical faces*

Couleur / *Color* : Gris / *Grey*

Pour déclarer, ou non, la conformité à la spécification, il n'a pas été tenu explicitement compte de l'incertitude associée au résultat
Whether or not to declare compliance with the specification, the uncertainty associated with the result was not explicitly taken into account
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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product description Glass fibre material

Manufacturer / Supplier

Cepro International BV
Provinciënbaan 16
NL-5121 DL RIJEN
The Netherlands

Tel. no. for information / emergency +31 (0)161 22 64 72
Fax no. for information / emergency +31 (0)161 22 49 73

Date of issue February 2014

2. HAZARD INFORMATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
Not determined
Classification according to Regulation 67/548/EEC or 1999/45/EC
No classification
Label elements The product does not require a hazard warning label in accordance with EC-directives. This product is an article and therefore it does not require labelling according to EC directives/GefStoffV.
Other hazards
Physico-chemical hazards no particular hazards known.
Environmental hazards no particular hazards known.
Other hazards none

3. COMPOSITION / INFORMATION ON INGREDIENTS

Range [%]	Substance
85-100	glass CAS:65997-17-3, EINECS/ELINCS: 266-046-0

Comment on component parts No dangerous components.
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1 %.

4. FIRST AID MEASURES

Description of first aid measures
General information Change soaked clothing.

Inhalation Ensure supply of fresh air. In the event of symptoms refer for medical treatment.

Skin contact When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

Eye contact In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion Not applicable

Most important symptoms and effects, both acute and delayed
No information available

Indication of any immediate medical attention and special treatment needed
Treat symptomatically
Forward this sheet to the doctor.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used
None.

Special hazards arising from the substance or mixture
Unknown risk of formation of toxic pyrolysis products.

Advice for fire-fighters
not applicable
Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Use breathing apparatus if exposed to dust.

Environmental precautions
Not applicable

Methods and material for containment cleaning up
Dispose of absorbed material in accordance with the regulations. Take up mechanically.

Reference to other sections
See section 8+13

7. HANDLING AND STORAGE

Precautions for safe handling
With mechanical processing however fibers can be set free.
Avoid the formation and depositions of dust.
Provide vacuuming if dust raised.
Dust deposits that cannot be avoided must be taken up regularly.

Wash hands before breaks and after work.
Use barrier skin cream
take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities
No special measures necessary.

Specific end use(s)
See product use. section 12

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
85-100	glass CAS: 65997-17-3, EINECS/ELINCS: 266-046-0 Long-term exposure: TLV-TWA: 1 f/cc (respirable): 5 mg/m^3 (inhalable (ACGHIH

Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation
To pay attention to dust limit value (ACGHI-2011: 10 mg/m^3 particle inhalable; 3 mg/m^3 particle respirable).

Eye protection
Safety glasses

Hand protection
The details concerned are recommendations. Please contact the glove supplier for further information.
Leather (EN 388).

Skin protection
Long-sleeved work clothes.

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Other Avoid contact with eyes and skin.
Do not inhale dust.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection: Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, filter P2.

Thermal hazards No information available

Delimitation and monitoring of the environmental exposition:
not determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid in different forms.	**Vapour pressure (kPa)**	Not applicable.
Colour	Various.	**Density (g/m)**	Not determinated.
Odour	Odourless.	**Bulk density (kg/m³)**	Not applicable.
pH-value	Not applicable.	**Solubility in water**	Immiscible.
pH-value, 1 %	Not applicable.	**Partition coefficient: n-octanol / water**	Not applicable.
Boiling point (°C)	Not applicable.	**Viscosity**	Not applicable.
Flash point (°C)	Not applicable.	**Relative vapour density determined in air**	Not applicable.
Flammability (°C)	Not applicable.	**Evaporation speed**	Not applicable.
Lower explosion limit	Not applicable.	**Melting point (°C)**	Not determinated.
Upper explosion limit	Not applicable.	**Autoignition temp. (°C)**	Not applicable.
Combustible properties	No.	**Decomposition temp. (°C)**	Not applicable.

Other information No information available

10. STABILITY AND REACTIVITY

Reactivity No hazardous reactions known
Chemical stability Stable under normal ambient conditions (ambient temperature)
Possibility of hazardous reactions
No hazardous reactions known
Conditions to avoid No information available
Incompatible materials No information available
Hazardous decompostions products
No hazardous products known

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: not determined
Acute dermal toxicity: not determined
Acute inhalational toxicity: not determined
Irritant effect on eye: not determined
Irritant effect on skin: not determined
Sensitization: not determined
Subacute toxicity: not determined
Chronic toxicity: not determined
Mutagenicity: not determined
Reproduction toxicity: not determined
Carcinogenicity: not determined
Experiences made in practice: Contains fibres with diameter > 6 micrometers. The filament is not breathable (WHO).
Fiber abrasion can cause mechanical skin irritation.
General remarks: No classification on the basis of the calculation procedure of the preparation directive.

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12. ECOLOGICAL INFORMATION

Toxicity

Persistence and degradability
Behaviour in environment compartments
not applicable
Behaviour in sewage plant not applicable
Biological degradability not applicable

Bioaccumulative potential No information available

Mobility in soil No information available

Results of PBT and vPvB assessment
No information available

Otherwise adverse effects The product is insoluble in water.
Can be separated out mechanically in purifications plants.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. it is not possible to determine a waste code for this product in accordance with the European Wast Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 101112
101103

Contaminated packaging
Uncontaminated packaging may be taken for recycling

Waste no. (recommended) 150101
150102

14. TRANSPORT INFORMATION

UN number see section 14 in accordance with UN shipping name
UN proper shipping name
Transport by land according to ADR/RID NO DANGEROUS GOODS
Inland navigation (ADN) NO DANGEROUS GOODS
Marine transport in accordance with IMDG NO DANGEROUS GOODS
Air transport in accordance with IMDG NO DANGEROUS GOODS

Transport hazard class(es) see section 14 in accordance with UN shipping name
Packing group see section 14 in accordance with UN shipping name
Environmental hazards see section 14 in accordance with UN shipping name
Special precautions for user relevant information under section 6 to 8
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code
not applicable

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS:	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (GB)	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

Observe employment restrictions for people
Not applicable

OC (1999/13/CE) Not applicable

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

15. OTHER INFORMATION

Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

Customs tariff Not determined

Disclaimer: 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.

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TECHNICAL DATA

Test			Standard
1. Weave		Plain	DIN 61 101 - 1
2. Width		1000 mm	DIN EN 1773
3. Thickness		1,6 mm	DIN EN ISO 2286-3
4. Weight		1220 g/m²	DIN EN ISO 12127
5. Number of threads	*warp*	5,0 threads/cm	DIN EN 1049 - 2
	weft	3,0 threads/cm	
6. Yarn count	*warp*	1250 tex	DIN EN ISO 2060
	weft	1250 tex	
7. Filament diameter	*warp*	9 µm	DIN 53 811
	weft	9 µm	
8. Tensile strength	*warp*	> 6000 N/5 cm	ISO 4606
	weft	> 3200 N/5 cm	

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