

HERCULES WELDING BLANKET



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E09/09 – Révision D du 03/09/2014

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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

C'est-à-dire / Namely, A2 – s1, d0

**Classement de réaction au feu /
 Reaction to fire classification :**

A2-s1,d0

4.3 Domaine 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 :

Épaisseur / Thickness : 1.6 mm

Masse volumique / Density : 775 kg/m³

Masse surfacique / Surface mass : 1240 g/m²

Le classement est valable pour les conditions d'utilisation finale suivantes / The classification is valid for the following end-use condition:

*Fixé mécaniquement et suspendu librement par-dessus un cadre métallique A1 et densité 2700kg/m³ (représentatif de tous les supports métalliques de qualité A1 ayant une masse volumique supérieure à 2025kg/m³ et dont le point de fusion est supérieur ou égal à 500°C) / Mechanically fixed and freely suspended over a metal frame A1 density 2700kg/m³ (representative of every A1 metallic substrate having a density superior to 2025kg/m³ and having a fusion point superior or equal to 500°C).
 Avec une lame d'air de 40mm ou moins / With an air gap 40mm thick or less.*

5. Limitations

Le présent document de classement n'est pas une approbation ni une certification de type du produit.
 This classification document does not represent type of approval or certification of the product.

Signé

Signature de la personne ayant réalisé le classement
 Signature of the person who realise the classification

Thomas TURF
 Ingénieur praticien
 Test engineer

Approuvé

signature de la personne autorisant le présent rapport
 Signature of the person who authorise the report

Skander KHELIFI
 Responsable Technique
 Technical Manager

Ce rapport de classement comprend 4 pages et ne peut être utilisé ou reproduit que dans son intégralité
 This Classification Report consists of 4 pages and may only be used or reproduced in its entirety

HERCULES WELDING BLANKET**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY**

Product description	Glass fibre material		
Manufacturer / Supplier	Cepro International BV P.O. Box 183 5120 AD Rijen The Netherlands	Date of issue	February 2014
	Tel. no. for information / emergency	+31 (0)161 22 64 72	
	Fax no. for information / emergency	+31 (0)161 22 49 73	

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 %.
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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 neededTreat 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.
Skin protection	Leather (EN 388). 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 determined.
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 determined.
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 decompositions products	

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 Waste 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

OC (1999/13/CE) Not applicable

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

16. 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/m ²	DIN EN ISO 12127
5. Number of threads	<i>warp</i>	5,0 threads/cm	DIN EN 1049 - 2
	<i>weft</i>	3,0 threads/cm	
6. Yarn count	<i>warp</i>	1250 tex	DIN EN ISO 2060
	<i>weft</i>	1250 tex	
7. Filament diameter	<i>warp</i>	9 µm	DIN 53 811
	<i>weft</i>	9 µm	
8. Tensile strength	<i>warp</i>	> 6000 N/5 cm	ISO 4606
	<i>weft</i>	> 3200 N/5 cm	

* partly according to the standard

Subject to tolerances