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E09/06 a du 06/04/2010

### PROCES-VERBAL DE CLASSEMENT DE REACTION AU FEU D'UN MATERIAU

Valable 5 ans à compter du 3 novembre 2011

Selon l'arrêté du 21 novembre 2002 relatif à la réaction au feu des produits de construction et d'aménagement  
Laboratoire agréé du Ministère de l'Intérieur (arrêté du 23/03/2010 modifiant l'arrêté du 05/02/1959 modifié)

Procès-verbal n° 1303/01/279 F

Et annexe de 4 pages

**Matériau présenté par :** CEPRO  
87 rue Nationale  
59000 LILLE  
France

**Référence commerciale :** Toile CHRONOS

**Description sommaire :** Toile de fibres de verre filament (690 g/m<sup>2</sup>). L'une des deux face est  
enduite de Polyuréthane (30 g/m<sup>2</sup>).  
Epaisseur nominale totale : 0,68 mm  
Masse surfacique nominale : 720 g/m<sup>2</sup>.  
Coloris présenté : Gris

**Nature de l'essai :** NF P 92-503 - Essai au brûleur électrique  
NF EN ISO 1716 - Détermination de la chaleur de combustion

**Référence du rapport d'essai :** RE 3M 1303/01/279 F du 03/11/2011  
RE 1E 1303/01/279 F du 03/11/2011

**Classement :**

**MO**

**Durabilité du classement :** Non limitée a priori.

Compte tenu des critères résultants des essais décrits dans le rapport annexé.

Ce procès verbal atteste uniquement des caractéristiques de l'échantillon soumis aux essais et ne préjuge pas des caractéristiques de produits similaires. Il ne constitue donc pas une certification de produits au sens de l'article L. 115-27 du code de la consommation et de la loi du 3 juin 1994.

« Valable pour toute application pour laquelle le produit n'est pas soumis au marquage CE »

Pour ordre, suppléant du Directeur  
Technique du laboratoire, Franck POUTCH

Stéphane BOISSEL

A Bruay-la-Buissière, 03/11/2011  
Le Responsable de la classification

Laurent PANKEWITCH

Nota. - Sont seules autorisées les reproductions intégrales et par photocopie du présent procès-verbal de classement  
ou de l'ensemble procès-verbal de classement et rapport d'essais annexé.

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

<b>Product description</b>	Thermo E-glass fibre material		
<b>Manufacturer / Supplier</b>	<b>Cepro International BV</b> P.O. Box 183 5120 AD Rijen The Netherlands	<b>Date of issue</b>	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**

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

<b>Comment on component parts</b>	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 needed**Treat symptomatically  
Forward this sheet to the doctor.

**KRONOS WELDING BLANKET**



**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	None.
<b>Special hazards arising from the substance or mixture</b>	Unknown risk of formation of toxic pyrolysis products.
<b>Advice for fire-fighters</b>	not applicable Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid dust formation. Use breathing apparatus if exposed to dust.
<b>Environmental precautions</b>	Not applicable
<b>Methods and material for containment cleaning up</b>	Dispose of absorbed material in accordance with the regulations. Take up mechanically.
<b>Reference to other sections</b>	See section 8+13

**7. HANDLING AND STORAGE**

<b>Precautions for safe handling</b>	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.
<b>Conditions for safe storage, including any incompatibilities</b>	No special measures necessary.
<b>Specific end use(s)</b>	See product use. section 12

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

<b>Control parameters</b>	
<b>Ingredients with occupational exposure limits to be monitored (GB)</b>	
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 <sup>3</sup> (inhalable (ACGHIH
<b>Exposure controls</b>	
<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation To pay attention to dust limit value (ACGHI-2011: 10 mg/m <sup>3</sup> particle inhalable; 3 mg/m <sup>3</sup> particle respirable).
<b>Eye protection</b>	Safety glasses
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Leather (EN 388). Long-sleeved work clothes.

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<b>Other</b>	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.
<b>Respiratory protection:</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P2.
<b>Thermal hazards</b>	No information available
<b>Delimitation and monitoring of the environmental exposition:</b>	not determined

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid in different forms.	<b>Vapour pressure (kPa)</b>	Not applicable.
<b>Colour</b>	Various.	<b>Density (g/m)</b>	Not determined.
<b>Odour</b>	Odourless.	<b>Bulk density (kg/m<sup>3</sup>)</b>	Not applicable.
<b>pH-value</b>	Not applicable.	<b>Solubility in water</b>	Immiscible.
<b>pH-value, 1 %</b>	Not applicable.	<b>Partition coefficient: n-octanol / water</b>	Not applicable.
<b>Boiling point (°C)</b>	Not applicable.	<b>Viscosity</b>	Not applicable.
<b>Flash point (°C)</b>	Not applicable.	<b>Relative vapour density determined in air</b>	Not applicable.
<b>Flammability (°C)</b>	Not applicable.	<b>Evaporation speed</b>	Not applicable.
<b>Lower explosion limit</b>	Not applicable.	<b>Melting point (°C)</b>	Not determined.
<b>Upper explosion limit</b>	Not applicable.	<b>Autoignition temp. (°C)</b>	Not applicable.
<b>Combustible properties</b>	No.	<b>Decomposition temp. (°C)</b>	Not applicable.

**Other information** No information available

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

<b>Acute oral toxicity:</b>	not determined
<b>Acute dermal toxicity:</b>	not determined
<b>Acute inhalational toxicity:</b>	not determined
<b>Irritant effect on eye:</b>	not determined
<b>Irritant effect on skin:</b>	not determined
<b>Sensitization:</b>	not determined
<b>Subacute toxicity:</b>	not determined
<b>Chronic toxicity:</b>	not determined
<b>Mutagenicity:</b>	not determined
<b>Reproduction toxicity:</b>	not determined
<b>Carcinogenicity:</b>	not determined
<b>Experiences made in practice:</b>	Contains fibres with diameter > 6 micrometers. The filament is not breathable (WHO). Fiber abrasion can cause mechanical skin irritation.
<b>General remarks:</b>	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  
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		Satin 1/7	DIN 61 101 - 1
2. Width		1000 mm	DIN EN 1773
3. Thickness		0,68 mm	DIN EN ISO 2286-3
4. Weight		690 g/m <sup>2</sup>	DIN EN ISO 12127
5. Number of threads	<i>warp</i>	16,0 threads/cm	DIN EN 1049 - 2
	<i>weft</i>	15,0 threads/cm	
6. Yarn count	<i>warp</i>	204 total	DIN EN ISO 2060
	<i>weft</i>	204 total	
7. Filament diameter	<i>warp</i>	9 (11) µm	DIN 53 811
	<i>weft</i>	9 (11) µm	
8. Tensile strength	<i>warp</i>	> 4200 N/5 cm	ISO 4606
	<i>weft</i>	> 3500 N/5 cm	

\* partly according to the standard

Subject to tolerances