

SAFETY DATA SHEET

Based on Regulation (EC) no. 1907/2006 (REACH) Article 31 and Annex II

HEAT-SHRINKABLE PRODUCTS FOR ENVIRONMENTAL AND CORROSION PROTECTION

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Productname : HEAT-SHRINKABLE PRODUCTS FOR ENVIRONMENTAL AND CORROSION PROTECTION PROTECTION AFCH, APPM, ASE-2/-4, BLOT, CASEAL, CCS-DHEC, CPSM, CSEM, CSEM-F, DHEC, DIRAX, DUALSEAL, ES100, FCMS, FCMS-CAP, FCWS, FCWS-F, FLANGESEAL, FLEXCLAD, FOPS, GAPS, GRS(M), GRSM-F, HEPS, HTLP, HTTE, IPEC, IPPS, IPSM, LPSM, MCWS, MEPS, MWRM, MWTM, OVERFLEX, PERP, PERPFILLER, PERP-MELTSTICK, PPS120, RAYCLAD, RAYJOINT, RETROCLAD, RFS, RJS, ROCS, SATM, STTE, S1052, S1080, S1113, S1137, S1182, S1238, TAC, TDBM, TFLS, TISK, TISKW-F, TISW-F, TPS, TPSM, TSSM, TSSR, TWDB, WAFT, WATERWRAP, WEPS, WPC-B30, WPC-C30, WPC-C50, WPCP-IV, WPC100M, WPC120, WPC60, WPC65M, WPC80, XCSM Synonyms : WPC80, XCSM Producttype REACH : Substance/preparation as integral part of an article CAS No. N.A. Reference: RAY/6075E Revision 6 : : N.D. EC index No. N.A. NFPA code : Molecular weight : N.A. Formula : N.A. EINECS No. : N.A. RTECS No. N.A. :

1.2 Use of the substance/preparation:

- Professional use
- Heat-shrinkable polymeric products
- Sealant

1.3 Company/undertaking identification:

Berry Plastics BVBA Nijverheidsstraat 10-11 B-2600 Westerlo Tel: +32 14 72 25 00 Fax: +32 14 72 25 70 e-mail address: cpge@berryplastics.com

1.4 Emergency telephone: +32 14 58 45 45 (24/24 h) Brandweerinformatiecentrum voor Gevaarlijke Stoffen (BIG) Technische Schoolstraat 43 A, B-2440 Geel

2. Hazards identification

- Not classified as dangerous in compliance with Regulation (EC) No 1907/2006

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc.(%)	Hazards (R-phrases)	Hazard symbol
none			-	-

(1) For R-phrases in full: see heading 16

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

Printing date : 18-3-2010 1/8 Compiled by : Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel **2** +32 14 58 45 47 http://www.big.be e-mail address: info@big.be Date of issue : 16-02-2000 Revision : 18-01-2010 : 006 Reference number : BIG\22591GB Revision number Reason for revision :

First aid measures 4.

- 4.1 After inhalation:
 Remove the victim into fresh air
 Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

- Rinse with water Take victim to a doctor if irritation persists
- Take victim to a doctor if irritation persists
 In case of burns:
 Wash immediately with lots of water (15 minutes)/shower
 Remove clothing while washing
 Do not tear off solidified product from the skin
 Do not remove clothing if it sticks to the skin
 Cover wounds with sterile bandage
 Consult a doctor/medical service
 If burned surface > 10%: take victim to hospital

- 4.3 Eye contact:
 Rinse with water
 Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:

 - Rinse mouth with water
 If you feel unwell: consult a doctor/medical service

5. **Fire-fighting measures**

- 5.1 Suitable extinguishing media: - Water spray
 - Polyvalent foam
 - ABC powder
 - Carbon dioxide

5.2 Unsuitable extinguishing media: - Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
 - On burning: release of toxic and corrosive gases/vapours e.g.: nitrous
 vapours, carbon monoxide/carbon dioxide

5.4 Instructions: - Dilute toxic gases with water spray

5.5 Special protective equipment for firefighters: Heat/fire exposure: self-contained breathing apparatus
 Protective clothing

6. Accidental release measures

- 6.1 Personal precautions: See heading 8.2
- 6.2 Environmental precautions: Contain released substance, pump over in suitable containers
 See heading 13
- 6.3 Methods for cleaning up: - Solid spill: shovel up
 - Wash clothing and equipment after handling

Handling and storage 7.

- 7.1 Handling:
 - Observe normal hygiene standardsClean contaminated clothing

7.2 Storage:

- Store in a dry area
 Meet the legal requirements
 Keep away from: heat sources, oxidizing agents, acids, bases

Storage temperature Quantity limit Storage life Materials for packaging		°C kg days
- suitable :no	data available	

- to avoid : no data available
- 7.3 Specific use(s): - Refer to Berry Plastics product installation instructions

8. **Exposure controls/Personal protection**

- 8.1 Exposure limit values:
- 8.1.1 Occupational exposure:

TLV-TWA TLV-STEL TLV-Ceiling	::	not	listed listed listed
WEL-LTEL WEL-STEL	::		listed listed
TRGS 900	:	not	listed
MAK	:	not	listed
GWBNL-TGG 8 h GWKNL-TGG 15 min. Ceiling	::	not	listed listed listed
VME-8 h VLE-15 min.	:		listed listed
GWBB-8 h GWK-15 min. Momentary value	::	not	listed listed listed
EC EC-STEL	::		listed listed

8.1.2 Sampling methods: - No data available

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Stop heating immediately if the product blisters, chars or shows other signs of degradation - Avoid inhaling fumes which may be released
- In case work is not done in the open, ventilate the area thoroughly before resuming work

Personal protective equipment:

- a) Respiratory protection: On heating: gas mask with filter type A
- b) Hand protection:
- Insulated gloves Suitable material:

Neoprene Nitrile rubber

- Breakthrough time: N.D.
- c) Eye protection:
- Safety glasses
- d) Skin protection:
- Protective clothing Suitable material:

Neoprene Nitrile rubber

: N.D.

: N.D.

8.2.2 Environmental exposure controls: see headings 6.2, 6.3 and 13

Physical and chemical properties 9.

9.1 General information:

Appearance (at 20°C) Odour Colour

:	Plastic tubing,	wrap-around	sleeves
	and moulded part	ts	
:	Almost odourles:	S	

: Variable in colour, depending on the composition

 q/m^3

pS/m

9.2 Important health, safety and environmental information:

: N.D.	-	
: N.D.	°C	
: N.D.	vol% (°C)
: N.D.		
: N.D.	hPa	
: N.D.	hPa	
: 0.9/1.8		
: Insolub	ole	
: N.D.		
: N.D.		
: N.D.	Pa.s	
: N.D.		
: N.D.		
: N.D.		
: 65/160	°C	
: N.D.	°C	
	: N.D. : N.D. : N.D. : N.D. : 0.9/1.8 : Insolub : N.D. : N.D.	: N.D. °C : N.D. °C : N.D. vol% (: N.D. hPa : N.D. hPa : 0.9/1.8 : Insoluble : N.D. Pa.s : N.D. Pa.s : N.D. : N.D. : : N.D. : : N

Saturation concentration

Specific conductivity

9.3

Stability and reactivity 10.

10.1 Conditions to avoid:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, oxidizing agents, acids, bases

- 10.3 Hazardous decomposition products:
 - Thermal decomposition is not significant when products are used in accordance with Berry Plastics product installation instructions
 - When processed: release of irritant gases/vapours
 - On burning: release of toxic and corrosive gases/vapours e.g.: nitrous vapours, carbon monoxide/carbon dioxide

Toxicological information 11.

11.1 Acute toxicity:

LD50	oral rat	:	N.D.	mg/kg
LD50	dermal rabbit	:	N.D.	mg/kg
LD50	dermal rabbit	:	N.D.	mg/kg
LC50	inhalation rat	:	N.D.	mg/1/4 h
LC50	inhalation rat	:	N.D.	ppm/4 h

11.2 Chronic toxicity:

EC carc. cat. EC muta. cat. EC repr. cat.	<pre>: not listed : not listed : not listed</pre>
Carcinogenicity (TLV) Carcinogenicity (MAC) Carcinogenicity (VME) Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK) Mutagenicity (MAK) Teratogenicity (MAK)	<pre>: not listed : not listed : not listed</pre>
IARC classification	: not listed

11.3 Routes of exposure:

Inhalation of thermal decomposition products

11.4 Acute effects/symptoms:

AFTER INHALATION

ON OVERHEATING:

- Irritation of the respiratory tract
- Coughing
- Headache
- Dizziness
- Nausea
- Respiratory difficulties

AFTER SKIN CONTACT

- IF MELTED:
- Burns

AFTER EYE CONTACT

- ON OVERHEATING:
- Slight irritation
- Redness of the eye tissue

11.5 Chronic effects:

- Not listed in carcinogenicity class (IARC, EC, TLV, MAK)
- Not listed in mutagenicity class (EC,MAK)
 Not classified as toxic to reproduction (EC)

12. **Ecological information**

12.1 Ecotoxicity:

- No data available
- Effect on waste water purification : no data available

12.2 Mobility:

- Volatile organic compounds (VOC): N.D.%
- Insoluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- biodegradation BOD_5	:		N.D.	% ThOD	1
- water	:		N.D.		
- soil	:	т ½:	N.D.	days	

12.4 Bioaccumulative potential:

_	log	\mathbf{P}_{ow}	:	N.D.
-	BCF		:	N.D.

12.5 Results of PBT assessment: - Not applicable, on the basis of the available data.

12.6 Other adverse effects:

- WGK : N.A.
- Effect on the ozone layer
 Greenhouse effect : No data available : No data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09)
- LWCA (the Netherlands): KGA category 03
 Remove waste in accordance with local and/or national regulations

13.2 Disposal methods:

- Remove to an authorized waste treatment plant

13.3 Packaging:

- No data available

14. Transport information

14.1	Classification of the substance in complian UN-number CLASS SUB RISKS PACKING GROUP	nce wi	ith UN Recommendations -
14.2	ADR (transport by road) CLASS PACKING GROUP CLASSIFICATION CODE DANGER LABEL TANKS DANGER LABEL PACKAGES PROPER SHIPPING NAME	:::::::::::::::::::::::::::::::::::::::	Not subject
14.3	RID (transport by rail) CLASS PACKING GROUP CLASSIFICATION CODE DANGER LABEL TANKS DANGER LABEL PACKAGES PROPER SHIPPING NAME	: : : : : : : : : : : : : : : : : : : :	Not subject
14.4	ADNR (transport by inland waterways) CLASS PACKING GROUP CLASSIFICATION CODE DANGER LABEL TANKS DANGER LABEL PACKAGES	::	Not subject
14.5	IMDG (maritime transport) CLASS SUB RISKS PACKING GROUP MFAG EMS MARINE POLLUTANT	::	Not subject
14.6	ICAO (air transport) CLASS SUB RISKS PACKING GROUP PACKING INSTRUCTIONS PASSENGER AIRCRAFT PACKING INSTRUCTIONS CARGO AIRCRAFT	: : :	Not subject
14.7	Special precautions	:	Not restricted for any mode of international transport

15. Regulatory information

15.1 EU Legislation:

Not classified as dangerous in compliance with Regulation (EC) No 1907/2006

15.2 National provisions:

```
the Netherlands:
Waterbezwaarlijkheid: N.A.
Germany:
```

WGK : N.A.

16. Other information

Users are advised that they may have additional disclosure obligations under other national and local laws. Users are advised to ensure that this information is brought to the attention of all employees, agents, and contractors handling this product. Users of Berry Plastics BVBA products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures. Distributors of this product are advised to forward this document, or the information contained herein, to every purchaser of this product.

Berry Plastics BVBA makes no warranties as to the accuracy or completeness of this information and disclaims any liability in connection with its use. Berry Plastics BVBA obligations shall be only as set forth in Berry Plastics BVBA standard terms and conditions of sale for this product. In no case will Berry Plastics BVBA be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of this product.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:				
TLV	:	Threshold Limit Value - ACGIH USA		
WEL	:	Workplace Exposure Limits - United Kingdom		
TRGS 900	:	Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany		
MAK	:	Maximale Arbeitsplatzkonzentrationen – Germany		
GWBNL	:	Grenswaarde voor blootstelling - the Netherlands		
GWKNL	:	Grenswaarde korte duur - the Netherlands		
VME	:	Valeurs limites de Moyenne d'Exposition - France		
VLE	:	Valeurs limites d'Exposition à court terme - France		
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium		Grenswaarde beroepsmatige blootstelling - Belgium		
GWK	:	Grenswaarde kortstondige blootstelling – Belgium		
EC	:	Indicative occupational exposure limit values		
<pre>I : Inhalable fraction = T : Total dust = E : Einatembarer Aerosolanteil R : Respirable fraction = A : Alveolengängiger Aerosolanteil/Alveolar dust C : Ceiling limit</pre>				

Chronic toxicity:
 K : List of the carcinogenic substances and processes - the Netherlands