

heat-shrinkable products for telecommunication applications

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	: heat-shrinkable products for telecommunication applications
Synonyms	: 102K-CAPS; 102L-CAPS; BK; BOKT; CBSM; CECA; CFSM; CNSM; CWPT; CWRT; CWST; EPAF-WALL FEED THROUGH; FOSC; MWTM; PED-CAPS; PWT; RABC; RASK; RAYBLOCK-100; RCRS; RDRK; RFSM; RLSS; RPBS; RWGK; RWPS; SCOP; SMOUV; SVSM; TCS2; VASM; VKCT; WCSM; WRST; XAGA-1000; XAGA-1650; XAGA-500; XAGA-530; XAGA-550; XCSF; XCSM; XCST; XMD-4; XTAP
Registration number REACH	: Not applicable (article)
Product type REACH	: Article

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Typical uses of heat-shrinkable polymeric products include primary electrical insulation, EMI/RFI shielding, cable jacketing and repair, strain relief, waterproofing, cable/pipe identification, corrosion protection, environmental/mechanical protection, and cable joining, splicing, and termination in telecommunication applications

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the Product Safety Information Sheet:

Supplier of the Product Safety Information Sheet

CommScope Connectivity Belgium bvba
 Diestsesteenweg 692
 B-3010
 Kessel-Lo
 ☎ +32 16 35 16 85
 #ProductCompliance@commscope.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
 +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Labelling does not apply to articles

2.3. Other hazards

Heated product causes skin burns
 Heated product causes eye burns

SECTION 3: Composition/information on ingredients

In normal conditions of use, the components cannot be released because of the form in which the article or preparation is placed on the market

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

After inhalation of fume: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

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.

After eye contact:

heat-shrinkable products for telecommunication applications

After contact with fume: Rinse with water. Take victim to an ophthalmologist if irritation persists. In case of burns: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:

ON OVERHEATING: Dizziness. Headache. Irritation of the respiratory tract. Coughing. Nausea.

After skin contact:

If molten: burns.

After eye contact:

ON OVERHEATING: Irritation of the eye tissue. If molten: burns.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, sulphur oxides, carbon monoxide - carbon dioxide) and formation of metallic fumes. At very high temperature: release of irritant gases/vapours.

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

No data available

6.3. Methods and material for containment and cleaning up

If melted: allow liquid to solidify before taking it up. Start cleanup only if spill has cooled completely. Pick-up the material. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Stop heating immediately if the product bubbles, chars or shows other signs of degradation. For products containing a thermochromic temperature indicator, discontinue heating after the color changes from green to colorless. Observe normal hygiene standards.

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

2 / 8

heat-shrinkable products for telecommunication applications

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: -30 - 60 °C. Store in a dry area. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

8.2.1 Appropriate engineering controls

Stop heating immediately if the product bubbles, chars or shows other signs of degradation. For products containing a thermochromic temperature indicator, discontinue heating after the color changes from green to colorless. Carry operations in the open/under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

b) Hand protection:

Insulated gloves.

- materials (good resistance)

Natural rubber.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Solid in various shapes
Odour	Odourless
Odour threshold	Not applicable
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	Not applicable
Flammability	Non-flammable
Log Kow	Not applicable
Dynamic viscosity	Not applicable

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

3 / 8

heat-shrinkable products for telecommunication applications

Kinematic viscosity	Not applicable
Melting point	Not determined
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	butyl acetate ; Not applicable
Relative vapour density	Not applicable
Vapour pressure	Not applicable
Solubility	water ; insoluble
Relative density	Not applicable
Decomposition temperature	Not determined
Auto-ignition temperature	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	Not applicable

9.2. Other information

Solidification (freezing) point	Not applicable
---------------------------------	----------------

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Stop heating immediately if the product bubbles, chars or shows other signs of degradation. For products containing a thermochromic temperature indicator, discontinue heating after the color changes from green to colorless.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, sulphur oxides, carbon monoxide - carbon dioxide) and formation of metallic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

[heat-shrinkable products for telecommunication applications](#)

No (test)data available

Corrosion/irritation

[heat-shrinkable products for telecommunication applications](#)

No (test)data available

Respiratory or skin sensitisation

[heat-shrinkable products for telecommunication applications](#)

No (test)data available

Specific target organ toxicity

[heat-shrinkable products for telecommunication applications](#)

No (test)data available

Mutagenicity (in vitro)

[heat-shrinkable products for telecommunication applications](#)

No (test)data available

Mutagenicity (in vivo)

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

4 / 8

heat-shrinkable products for telecommunication applications

heat-shrinkable products for telecommunication applications

No (test)data available

Carcinogenicity

heat-shrinkable products for telecommunication applications

No (test)data available

Reproductive toxicity

heat-shrinkable products for telecommunication applications

No (test)data available

Toxicity other effects

heat-shrinkable products for telecommunication applications

No (test)data available

SECTION 12: Ecological information

12.1. Toxicity

heat-shrinkable products for telecommunication applications

No (test)data available

Conclusion

No data available on ecotoxicity

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Biodegradability in water: no data available

12.3. Bioaccumulative potential

heat-shrinkable products for telecommunication applications

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable			

Conclusion

No bioaccumulation data available

12.4. Mobility in soil

No (test)data on mobility of the components available

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

heat-shrinkable products for telecommunication applications

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

Can be considered as non hazardous waste according to Directive 2008/98/EC.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

07 02 13 (wastes from the MFSU of plastics, synthetic rubber and man-made fibres: waste plastic). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. Remove to an authorized dump (Class II). Remove to an incinerator for chlorinated waste materials with energy recovery. Remove waste in accordance with local and/or national regulations. Do not discharge to wastewater treatment installation.

13.1.3 Packaging/Container

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

5 / 8

heat-shrinkable products for telecommunication applications

No data available.

SECTION 14: Transport information

Road (ADR)

14.1. UN number

Transport	Not subject
-----------	-------------

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

14.4. Packing group

Packing group	
Labels	

14.5. Environmental hazards

Environmentally hazardous substance mark	no
--	----

14.6. Special precautions for user

Special provisions	
Limited quantities	

Rail (RID)

14.1. UN number

Transport	Not subject
-----------	-------------

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

14.4. Packing group

Packing group	
Labels	

14.5. Environmental hazards

Environmentally hazardous substance mark	no
--	----

14.6. Special precautions for user

Special provisions	
Limited quantities	

Inland waterways (ADN)

14.1. UN number

Transport	Not subject
-----------	-------------

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class	
Classification code	

14.4. Packing group

Packing group	
Labels	

14.5. Environmental hazards

Environmentally hazardous substance mark	no
--	----

14.6. Special precautions for user

Special provisions	
Limited quantities	

Sea (IMDG/IMSBC)

14.1. UN number

Transport	Not subject
-----------	-------------

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class	
-------	--

14.4. Packing group

Packing group	
Labels	

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

6 / 8

heat-shrinkable products for telecommunication applications

14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6. Special precautions for user

Special provisions	
Limited quantities	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Annex II of MARPOL 73/78	
--------------------------	--

Air (ICAO-TI/IATA-DGR)

14.1. UN number

Transport	Not subject
-----------	-------------

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Class	
-------	--

14.4. Packing group

Packing group	
Labels	

14.5. Environmental hazards

Environmentally hazardous substance mark	no
--	----

14.6. Special precautions for user

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	Not applicable

National legislation The Netherlands

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 04
Waterbezwaarlijkheid	Not applicable (article)

National legislation Germany

WGK	nwg; Classification non-water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 1)
-----	---

Other relevant data

No data available

15.2. Chemical safety assessment

No chemical safety assessment is required.

SECTION 16: Other information

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this Product Safety Information Sheet informs on the properties of certain substances, preparations or mixtures incorporated in the article. The Product Safety Information Sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this Product Safety Information Sheet does not release the user from the obligation to take all measures dictated by common sense, regulations, the guidelines of the manufacturer and recommendations or which are necessary and/or useful based on the real applicable circumstances. The Product Safety Information Sheet constitutes merely of guidelines and recommendations. The information in this Product safety Information Sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. New Product Safety Information Sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the Product Safety Information Sheet, the information does not apply to other, even similar products. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This Product Safety Information Sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this Product Safety Information Sheet is subject to the licence and liability limiting conditions as stated in the agreement

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

7 / 8

heat-shrinkable products for telecommunication applications

between BIG and the manufacturer of this product or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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

Publication date: 2016-03-24

Reference number: COMM076

Product number: 22588

Revision number: 0000

8 / 8