

## EPS Heat Shrinkable Polymeric Products

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

#### 1.1 Product identifier:

<b>Product name</b>	: EPS Heat Shrinkable Polymeric Products
<b>Synonyms</b>	: -130 moulded parts; -25 moulded parts; -3 moulded parts; -4 moulded parts; -5 moulded parts; -6 moulded parts; -71 moulded parts; ENC-XX moulded parts; NTFR tubing; NT-MIL tubing; NT tubing; SFR tubing; SRFR tubing
<b>Registration number REACH</b>	: Not applicable (article)
<b>Product type REACH</b>	: Article

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

##### 1.2.1 Relevant identified uses

Heat shrinkable polymeric products

##### 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

TYCO Electronics UK Ltd  
Faraday Road, Dorcan  
SN3 5HH Swindon, United Kingdom  
☎ +44 1793 52 81 71  
☎ +44 1793 57 25 16  
REACH-ADM@te.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:

##### 2.1.1 Classification according to Regulation EC No 1272/2008

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

##### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Not classified as dangerous according to the criteria of Directive(s) 67/548/EEC and/or 1999/45/EC

#### 2.2 Label elements:

##### Labelling according to Regulation EC No 1272/2008 (CLP)

Labelling does not apply to articles

##### Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labelling does not apply to articles

#### 2.3 Other hazards:

##### **CLP**

Heated product causes burns  
May produce an allergic reaction

##### **DSD/DPD**

Heated product causes burns  
May produce an allergic reaction

### 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

# EPS Heat Shrinkable Polymeric Products

## 4.1 Description of first aid measures:

### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

### After inhalation:

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

### After skin contact:

Rinse with water. 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.

### After eye contact:

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. Nausea. Respiratory difficulties.

#### After skin contact:

If molten: burns.

#### After eye contact:

ON OVERHEATING: Irritation of the eye tissue. Redness of the eye tissue.

#### 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 (hydrogen bromide, hydrogen chloride, hydrofluoric acid, carbon monoxide - carbon dioxide), formation of metallic fumes and formation of small quantities of phosphorus oxides, nitrous vapours, sulphur oxides.

### 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

Publication date: 2014-02-03

Reference number: SDS0190

Product number: 54690

Revision number: 0000

2 / 8

# EPS Heat Shrinkable Polymeric Products

## 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

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1 Precautions for safe handling:

Stop heating immediately if the product bubbles, chars or shows other signs of degradation. Observe strict hygiene.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### 7.2.1 Safe storage requirements:

Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep only in the original container. 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

Product name	Test	Number
No data available		

#### 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:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Stop heating immediately if the product bubbles, chars or shows other signs of degradation. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

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

##### a) Respiratory protection:

Insufficient ventilation: wear respiratory protection.

##### b) Hand protection:

Insulated gloves.

##### c) Eye protection:

Safety glasses.

##### d) Skin protection:

Protective clothing.

#### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

# EPS Heat Shrinkable Polymeric Products

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical form	Solid in various shapes
Odour	Mild odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	Not applicable (article)
Explosion limits	No data available
Flammability	No data available on direct fire hazard
Log Kow	No data available
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Melting point	Not applicable
Boiling point	Not applicable
Flash point	No data available
Evaporation rate	Not applicable
Vapour pressure	Not applicable
Relative vapour density	Not applicable
Solubility	water ; insoluble
Relative density	1.2-1.5
Decomposition temperature	>200 °C
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	Not applicable

#### Physical hazards

No physical hazard class

### 9.2 Other information:

No data available

## 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.

### 10.5 Incompatible materials:

No data available.

### 10.6 Hazardous decomposition products:

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

EPS Heat Shrinkable Polymeric Products

No (test) data available

Publication date: 2014-02-03

Reference number: SDS0190

Product number: 54690

Revision number: 0000

4 / 8

# EPS Heat Shrinkable Polymeric Products

## Corrosion/irritation

EPS Heat Shrinkable Polymeric Products

No (test)data available

## Respiratory or skin sensitisation

EPS Heat Shrinkable Polymeric Products

No (test)data available

## Specific target organ toxicity

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No (test)data available

## Mutagenicity (in vitro)

EPS Heat Shrinkable Polymeric Products

No (test)data available

## Mutagenicity (in vivo)

EPS Heat Shrinkable Polymeric Products

No (test)data available

## Carcinogenicity

EPS Heat Shrinkable Polymeric Products

No (test)data available

## Reproductive toxicity

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No (test)data available

## Toxicity other effects

EPS Heat Shrinkable Polymeric Products

No (test)data available

## Chronic effects from short and long-term exposure

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1 Toxicity:

EPS Heat Shrinkable Polymeric Products

No (test)data available

#### Conclusion

No data available on ecotoxicity

### 12.2 Persistence and degradability:

Biodegradability in water: no data available

### 12.3 Bioaccumulative potential:

EPS Heat Shrinkable Polymeric Products

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

#### 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.

Publication date: 2014-02-03

Reference number: SDS0190

Product number: 54690

Revision number: 0000

5 / 8

# EPS Heat Shrinkable Polymeric Products

## 12.6 Other adverse effects:

EPS Heat Shrinkable Polymeric Products

### Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

### Ozone-depleting potential (ODP)

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

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1 Waste treatment methods:

#### 13.1.1 Provisions relating to waste

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

06 04 05\* (wastes containing other heavy metals). Depending on branch of industry and production process, also other waste codes may be applicable.

Hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Remove to an incinerator for halogenated waste materials with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Use appropriate containment to avoid environmental contamination.

#### 13.1.3 Packaging/Container

No data available.

## SECTION 14: Transport information

### Road (ADR)

#### 14.1 UN number:

Transport	Not subject
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#### 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
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#### 14.6 Special precautions for user:

Special provisions	
Limited quantities	

### Rail (RID)

#### 14.1 UN number:

Transport	Not subject
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#### 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
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#### 14.6 Special precautions for user:

Special provisions	
Limited quantities	

### Inland waterways (ADN)

#### 14.1 UN number:

Publication date: 2014-02-03

Reference number: SDS0190

Product number: 54690

Revision number: 0000

6 / 8

# EPS Heat Shrinkable Polymeric Products

Transport	Not subject
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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
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14.6 Special precautions for user:

Special provisions	
Limited quantities	

## Sea (IMDG/IMSBC)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
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14.4 Packing group:

Packing group	
Labels	

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 73/78 and the IBC Code:

Annex II of MARPOL 73/78	
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## Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
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14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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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:

Volatile organic compounds (VOC)  
Not applicable

#### National legislation The Netherlands

EPS Heat Shrinkable Polymeric Products

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

#### National legislation Germany

EPS Heat Shrinkable Polymeric Products

WGK	nwg; Classification non-water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 1)
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Publication date: 2014-02-03

Reference number: SDS0190

Product number: 54690

Revision number: 0000

7 / 8

# EPS Heat Shrinkable Polymeric Products

## 15.2 Chemical safety assessment:

No chemical safety assessment is required.

## SECTION 16: Other information

Information based on classification according to CLP

### Full text of any R-phrases referred to under headings 2 and 3:

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

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 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.

Publication date: 2014-02-03

Reference number: SDS0190

Product number: 54690

Revision number: 0000

8 / 8