



# SAFETY DATA SHEET

Version: 1.0 Revision date: 31<sup>st</sup> January 2022  
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AND AS  
AMENDED BY UK REACH REGULATIONS SI 2019/758

## ZHTM Tubing

This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product name	ZHTM Tubing
Product code	Not applicable
Product type	Article
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Heat Shrink Tubing
Uses advised against	Anything other than the above.
<b>1.3 Details of the supplier of the safety data sheet</b>	
Supplier	Tyco Electronics UK Ltd Faraday Road, Dorcan, Swindon, Wiltshire, SN3 5HH, United Kingdom
Telephone	+44 (0) 1793 52 81 71 (Head Office) Monday - Friday 08:00 - 17:00 (GMT)
Fax	+44 1793 57 2516
E-mail (competent person)	<a href="mailto:SDS@te.com">SDS@te.com</a>
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 1793 528171
Languages spoken	English
	GMT (Monday to Friday 08:00 - 17:00)

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
<b>2.1.1 Regulation (EC) No. 1272/2008 (CLP) and The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain</b>	This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830. Since this material has no intended release of a substance and will not result in exposure to a hazardous chemical under normal conditions of use, no hazard classification or Safety Data Sheet is required. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.
<b>2.2 Label elements</b>	Not applicable.
Hazard Pictogram(s)	Not applicable.
Signal Word(s)	Not applicable.
Hazard Statement(s)	Not applicable.
Precautionary Statement(s)	Not applicable.
Supplemental information	Not applicable.
<b>2.3 Other hazards</b>	None Known

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- |                       |                                        |
|-----------------------|----------------------------------------|
| <b>3.1 Substances</b> | - not applicable                       |
| <b>3.2 Mixtures</b>   | Substances in preparations / mixtures. |



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As the product is an article (as defined in Regulation (EC) No 1907/2006), no components need to be listed within section 3 of the SDS as the requirements of SDS regulation 2015/830 do not apply. This product does not contain any known "substances of very high concern" (SVHC's). An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

### SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Self-protection of the first aider  
Inhalation

Skin contact

Eye contact

Ingestion

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

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

No special precautions are required for this product.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Dusts: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical attention/advice. If skin irritation occurs, get medical advice/attention. Dusts: Mechanical irritation of the skin and eyes. Wash skin with water. If irritation (redness, rash, blistering) develops, get medical attention.

Remove contact lenses, if present and easy to do. Continue rinsing. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation develops and persists, get medical attention.

Give plenty of water to drink. Get medical advice/attention if you feel unwell.

None anticipated. Machining may create dust.

No information available. Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

#### 5.2 Special hazards arising from the substance or mixture

#### 5.3 Advice for firefighters

As appropriate for surrounding fire.

small scale: Extinguish preferably with dry chemical, foam, waterspray or sand.

large scale: Use water spray, foam, dry powder or CO<sub>2</sub> to extinguish.

As appropriate for surrounding fire. Do not use water jet.

On overheating or burning: release of toxic and corrosive gases/vapours.

Combustion products: metal oxides

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Toxic fumes may be produced in a fire. Avoid contact with skin and eyes. Do not allow run-off from fire fighting to enter drains or water courses. Move undamaged containers from immediate hazard area if it can be done safely. Keep containers cool by spraying with water if exposed to fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

General measures applicable to all activities

In case of leakage, eliminate all ignition sources. Avoid contact with skin, eyes or clothing. Do not heat the product. Do not allow to enter drains, sewers or watercourses.

##### 6.1.1 For non-emergency personnel

Personal precautions, protective equipment and emergency procedures

Emergency procedures

Wear suitable protective clothing. In case of fire: Use self-contained breathing apparatus. Wear suitable gloves and eye/face protection.

No special measures are required.

##### 6.1.2 Self-protection of the first aider



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	Personal precautions, protective equipment and emergency procedures Emergency procedures	Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation No special measures are required.
6.2	<b>Environmental precautions</b>	Do not allow run-off from fire fighting to enter drains or water courses. Use appropriate containment. Ensure all waste water is collected and treated via a waste water treatment plant. Avoid release to the environment.
6.3	<b>Methods and material for containment and cleaning up</b>	Avoid generation of dust. Stop leak if safe to do so. Use appropriate container to avoid environmental contamination. Wet clean or vacuum up solids. Dispose of contents in accordance with local, state or national legislation.
6.4	<b>Reference to other sections</b>	See Section: 8, 13

### SECTION 7: HANDLING AND STORAGE

7.1	<b>Precautions for safe handling</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove contaminated clothing and wash clothing before reuse. Opened containers should be carefully resealed and stored in an upright position. Keep away from heat and sparks.
	Hygiene Measures	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping.
7.2	<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed and in a well-ventilated place. Keep away from heat and sparks.
	storage temperature	Ambient temperatures.
	Incompatible materials	None Known
7.3	<b>Specific end use(s)</b>	See Section: 1.2

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	<b>Control parameters</b>	
8.1.1	<b>Occupational exposure limits</b>	Users are advised to consider national Occupational Exposure Limits or other equivalent values.
8.1.2	<b>Biological limit value</b>	Not established
8.1.3	<b>PNECs and DNELs</b>	Exposure scenarios for substances in this preparation are not available.
8.2	<b>Exposure controls</b>	
8.2.1	<b>Appropriate engineering controls</b>	Ensure adequate ventilation Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
8.2.2	<b>Personal protection equipment</b>	Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Not normally required

Skin protection (Hand protection/ Other)

Not normally required



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Respiratory protection

Not normally required



Thermal hazards

Not applicable

### 8.2.3 Environmental exposure controls

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Solid, black
Odour	Odourless
Odour threshold	Not determined
pH	Not applicable - solid
Melting point/freezing point	Not established
Initial boiling point and boiling range	Not established
Flash point	Not applicable – solid
Evaporation rate	Not applicable – solid
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not established
Vapour pressure	Not applicable – solid
Vapour density	Not applicable – solid
Relative density	Not established
Solubility(ies)	Not established
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition temperature	Not established
Viscosity (mPa. s)	Not applicable – solid
Explosive properties	Not explosive
Oxidising properties	Not oxidising.

### 9.2 Other information

None Known

## SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions
10.2	Chemical stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4	Conditions to avoid	Should be kept away from naked flames and other sources of ignition.
10.5	Incompatible materials	Keep away from water. Avoid contact with acids and alkalis.
10.6	Hazardous decomposition products	None Known

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2015/830. This product does not contain any known "substances of very high concern" (SVHC's). An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.



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Acute toxicity - Oral	Based upon the available data, the classification criteria are not met.
Acute toxicity - Dermal	Based upon the available data, the classification criteria are not met.
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met.
Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.

11.2 Other information none

## SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Based upon the available data, the classification criteria are not met.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6 Other adverse effects	No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Do not allow to enter drains, sewers or watercourses. Dispose of this material and its container as hazardous waste Disposal should be in accordance with local, state or national legislation.
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## SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	Road/rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
14.1 UN number	Not classified	Not classified	Not classified
14.2 UN proper shipping name	Not classified	Not classified	Not classified
14.3 Transport hazard class(es)	Not classified	Not classified	Not classified
14.4 Packing group	Not classified	Not classified	Not classified
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable		
14.8 Additional information	None		

## SECTION 15: REGULATORY INFORMATION

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

### 15.1.1 EU regulations

Authorisations and/or restrictions on use	Not restricted
Substance(s) of Very High Concern (SVHCs)	None of the substances is included on the Candidate List of Substances of Very High Concern for authorisation (Annex XIV) under REACH Regulation (EC) No. 1907/2006.



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### GB regulations

Authorisations and/or restrictions on use  
Substance(s) of Very High Concern (SVHCs)

Not restricted  
None of the substances is included on the Candidate List of Substances of Very High Concern for authorisation (Annex XIV) under REACH Regulation (EC) No. 1907/2006.

### 15.1.2 National regulations

Wassergefährdungsklasse (Germany)

Not applicable

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required under REACH.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

Sections indicated with the following have been revised:

Version: 1.0

Date of preparation: 31<sup>st</sup> January 2022

Date Previous Issue: Not applicable

**Hazard classification:** This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

**References:** Safety Data Sheets for ingoing ingredients Regulation (EC) No. 1272/2008 (CLP). REACH Regulation (EC) No. 1907/2006.

### Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Tyco Electronics UK Ltd. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Tyco Electronics UK Ltd. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.