



Safety Data Sheet

1. IDENTIFICATION

Product Identifier

Dual Wall Heat Shrink Tubing

Other means of identification

Heat Shrink Tubing

Flex Tube

SDS QUICK045

Product Technology

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 commercial and military/aerospace electronic applications

Product Code(s)

5611 – 5616, 5657 - 5672

Recommended use of the chemical and restrictions on use

Recommended for commercial/industrial use

Not recommended for household use

Details of the supplier of the safety data sheet

Quick Cable Corporation

3700 Quick Drive

Franksville, WI 53126-0509

www.quickcable.com

Emergency Telephone Number (24 hr.)

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

CLASSIFICATION: This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

GHS LABELING: None established

GHS SYMBOL: None established

SIGNAL WORD: None established

APPEARANCE: Plastic tubing; molded parts in a variety of shapes, sizes & colors

EMERGENCY OVERVIEW: As is common with most organic materials, thermal degradation and combustion byproducts may be toxic and should not be inhaled. Thermal degradation is not significant at temperatures achieved during proper installation, as directed by product installation guides. At temperatures higher than those recommended for proper installation, most significantly if the product burns, the thermal degradation and combustion byproducts will depend on the base polymer used, and additives, if any may include, but are not limited to carbon monoxide, carbon dioxide, organic acids, aldehydes (including formaldehyde), acetic acid, low molecular weight hydrocarbons, silicon dioxide, hydrogen chloride, hydrogen fluoride, hydrogen bromide, vinyl acetate, ammonia, Fluoro olefins, phosphine and oxides of nitrogen, phosphorus and sulfur.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a manufactured article. Heat-Shrinkable Polymeric Products are not hazardous during proper installation, but the heat-shrinkable tubing may emit hazardous thermal decomposition and combustion byproducts if overheated to degradation. See "Thermal Degradation and Combustion Byproduct" section of this SDS for more specific information. Base polymer materials include polyethylene and olefin copolymers. Heat-shrinkable products may be coated with or used in conjunction with adhesives/mastics, which are based on olefin copolymers or polyamides.

4. FIRST-AID MEASURES

Eye Contact: None under normal use conditions. If eye irritation occurs, flush with clean water for 15 minutes while holding eyelids apart. Seek medical attention.

Skin Contact: None under normal use conditions. If eye irritation occurs, flush with clean water for 15 minutes while holding eyelids apart. Seek medical attention.

Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim to fresh air. If symptoms persist, seek medical attention. If breathing difficulties develop, qualified personnel should administer oxygen. If victim is not breathing, immediately begin artificial respiration. Keep victim warm and quiet; seek immediate medical attention.

Ingestion: Not a normal route of exposure. However, if swallowed and symptoms develop, seek medical attention.

Most important symptoms and effects

Symptoms: Overheating the product to charring or burning may produce vapors that may cause eye, skin, nose and throat irritation. Persons with pre-existing eye, skin, or respiratory disorders (e.g., asthma conditions) may be more susceptible to the effects of these vapors.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

FLASH POINT: None Established

AUTOIGNITION TEMPERATURE: None Established

SUITABLE EXTINGUISHING MEDIA: Water Spray Foam Dry Chemical CO₂

Use carbon dioxide, water, dry chemical or foam. Selection of extinguishing media should be based upon the size of the fire, the firefighting training/experience of the individual attempting to extinguish or control the fire, and the packaging materials exposed to the fire.

Specific Hazards Arising from the Chemical

Product is not flammable or combustible.

Hazardous Combustion Products

As is common with most organic materials, thermal degradation and combustion byproducts may be toxic and should not be inhaled. Thermal degradation is not significant at temperatures achieved during proper installation, as directed by product installation guides. At temperatures higher than those recommended for proper installation, most significantly if the product burns, the thermal degradation and combustion byproducts will depend on the base polymer used and additives, if any, may include but are not limited to carbon monoxide, carbon dioxide, organic acids, aldehydes (including formaldehyde), acetic acid, low molecular weight hydrocarbons, silicon dioxide, hydrogen chloride, hydrogen fluoride, hydrogen bromide, vinyl acetate, ammonia, hydrogen, fluoroolefins, phosphine and oxides of nitrogen, phosphorus and sulfur.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. Cool containers with flooding quantities of water until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Use personal protective equipment as recommended in Section 8 of this data sheet.
ENVIRONMENTAL PRECAUTIONS:	This material is not biodegradable
CONTAINMENT METHODS:	Prevent further leakage or spillage if safe to do so.
CLEANING METHODS:	Sweep or shovel into appropriate container for disposal.

7. HANDLING AND STORAGE

HANDLING:	<p>Use personal protective equipment as recommended in Section 8 of this data sheet.</p> <p>Avoid any vapors given off if the product is heated to decomposition, as shown by a darkening and browning of the sleeve. Avoid contact with molten material. Heat-resistant gloves are required if hot products are handled after installation. Do not consume food, beverages, or tobacco in the immediate work area. Wash hands before eating, drinking or smoking. Avoid heating products beyond temperatures required for normal installation.</p> <p>Follow the appropriate installation instructions and application guides to ensure that installation is performed properly. Ensure that any local requirements/legislation concerning the use of hand-held electrical equipment are observed. When using IR (infrared) heating devices, observe specific instructions. Do not touch hot surfaces on installation equipment.</p>
STORAGE:	Store material in original packaging away from excess heat.
INCOMPATIBLE MATERIALS:	None known based on information supplied.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EXPOSURE LIMITS:	None established
ENGINEERING CONTROLS:	Provide general or local exhaust ventilation systems.
RESPIRATORY PROTECTION:	None needed under normal conditions. If material is heated and odors are noticeable and/or irritating a respirator meeting NIOSH requirement(s) should be used. A qualified individual should evaluate each situation.
SKIN PROTECTION:	None Required.
HAND PROTECTION:	Wear suitable disposable gloves.
EYE PROTECTION:	Safety glasses with side-shields are recommended in all industrial operations.
HYGIENIC PRACTICES:	Wash hands before and after use.
OTHER:	Safety shower/eyewash in the area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Plastic tubing; molded parts in a variety of shapes, sizes & colors
ODOR:	Not established
PHYSICAL STATE:	Solid
BOILING POINT:	N/A
MELTING POINT:	None Established
FREEZING POINT:	N/A
FLASH POINT:	None Established
WATER SOLUBILITY:	Insoluble
VAPOR DENSITY:	N/A
VAPOR PRESSURE:	N/A
SPECIFIC GRAVITY:	None Established
PARTITION COEFFICIENT:	Data not available
EVAPORATION RATE:	N/A
RELATIVE DENSITY:	N/A
VISCOSITY:	N/A
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	N/A
PH:	N/A
FLAMMABILITY:	N/A

10. STABILITY AND REACTIVITY

STABILITY:	Product(s) are stable under normal handling and storage conditions.
REACTIVITY:	Product(s) are not reactive under normal handling and storage conditions.
CONDITIONS TO AVOID:	Avoid overheating of product during application / installation.
MATERIALS TO AVOID:	None Established
HAZARDOUS POLYMERIZATION:	Under normal conditions of storage and use, hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures higher than those recommended for proper installation, most significantly if the product burns, the thermal degradation and combustion byproducts will depend on the base polymer used and additives, if any, may include but are not limited to carbon monoxide, carbon dioxide, organic acids, aldehydes (including formaldehyde), acetic acid, low molecular weight hydrocarbons, silicon dioxide, hydrogen chloride, hydrogen fluoride, hydrogen bromide, vinyl acetate, ammonia, hydrogen cyanide, antimony, fluoro-olefins, phosphine and oxides of nitrogen, phosphorus and sulfur.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure

EYE CONTACT: Contact with molten material may cause thermal burns.

SKIN CONTACT: This product is not expected to be a skin irritant. Contact with the molten material may cause thermal burns. No harmful effects are expected from skin absorption of this product.

INHALATION: As is common with most organic materials, thermal degradation and combustion byproducts may be toxic and should not be inhaled.

INGESTION: Ingestion of this product is highly unlikely. There is insufficient information available on this material to predict the effects from ingestion.

COMPONENT INFORMATION: Mixture

Information on physical, chemical and toxicological effects

SYMPTOMS: Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

CARCINOGENICITY: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not established.

12. ECOLOGICAL INFORMATION

SUBSTANCE CONCERNED: Not established.

PERSISTENCE/DEGRADABILITY: Not established.

BIOACCUMULATION: Not established.

ECOTOXICITY: The product is not expected to be hazardous to the environment.

AQUATIC TOXICITY: Not established.

MOBILITY: Not established.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Disposal should be in accordance with applicable regional, national and local laws and regulations.

DISPOSAL OF PACKAGING: Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated

UN PROPER SHIPPING NAME: Not Regulated

HAZARD CLASS(ES): Not Regulated

PACKING GROUP: Not Regulated

ENVIRONMENTAL HAZARDS: None Established

DOT: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

15. REGULATORY INFORMATION

Canadian (DSL/NDSL): Article – exempt

Australian (ACIS): Article – exempt

Korea (KECI): Article – exempt

Japan (ENCS, MITI): Article – exempt

China (IECSC): Product(s) are in compliance with the Chinese Administration Measure on the Control of Pollution Caused by Electronic Information.

EU Directive 2015/863 (RoHS): Product(s) are in compliance with the European Directive 2015/863 on Restriction on Hazardous Substances (RoHS).

EU REACH Substances of Very High Concern (SVHC): Product(s) do not contain any REACH Substances of Very High Concern (SVHC) per the Candidate List published by the European Chemical Agency (ECHA) in accordance with Article 59(10) of the REACH Regulation.

TSCA (Toxic Substances Control Act): All materials are listed or exempt from TSCA listing

CERCLA (Comprehensive Emergency Response, Compensation, and Liability Act):

N/A

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

311/312 HAZARD CATEGORIES:

None established.

California Proposition 65:

Product(s) do not contain any substances that require a Proposition 65 warning.

NFPA Hazard Rating

NFPA

HMIS

Health (Blue)

0

0

Flammability (Red)

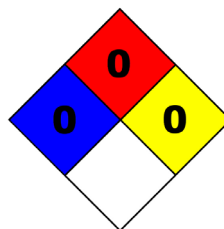
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0

Reactivity (Yellow)

0

0



Hazard Identification

0. Minimal Hazard

1. Slight Hazard

2. Moderate Hazard

3. Serious Hazard

4. Severe Hazard

16. OTHER INFORMATION

ISSUE DATE: 07/01/2013

REVISION DATE: 10/29/2019

REVISION NOTE(S): SDS format, update REACH and RoHS revisions. Add NFPA and HMIS Hazard ratings.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.