

SECTION 1: PRODUC	T AND COMPANY IDENTIFICATION	
PRODUCT NAME:	S1251 Mastic (red) S1243 Mastic (black)	
MANUFACTURER: DIVISION: ADDRESS: SUPPLIERS	Tyco Electronics Corporation Tyco Electronics Energy Division 2901 Fulling Mill Road Middleton, PA 17105-3608 USA	
EMERGENCY TELEP	HONE NUMBERS:	US: CHEMTREC 1-800-424-9300 CN: CHEMTREC 1-800-424-9300 Outside North America: 1-703-527-3987 (Collect calls accepted)
NON-EMERGENCY HEALTH/SAFETY INFORMATION:		North America: 1- 800-327-6996
CHEMICAL FAMILY: PRODUCT USE:	Hydrocarbon based poly S1251 is red mastic and	ner mastic materials S1243 is black mastic. Both are used as void fillers in splices.

This product is considered and article and thus it is not regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labelling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labelling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH) and a MSDS/SDS is not required for this product because when used as recommended or intended under ordinary conditions, it should not present a health and safety exposure or other hazard. If heated, charred, burned, or shredded the health and safety information presented below may apply.

## SECTION 2: HAZARDS IDENTIFICATION

S1251 and S1243 mastics are not hazardous during proper installation, but may emit EMERGENCY OVERVIEW: hazardous thermal decomposition and combustion byproducts if overheated to degradation. 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.

### POTENTIAL HEALTH EFFECTS:

#### ACUTE HEALTH HAZARDS:

- EYES: Contact with the molten material may cause thermal burns.
- This product is not expected to be a skin irritant. Repeated contact may cause an allergic skin reaction in sensitized individuals. Persons with pre-existing skin disorders may be more susceptible to the effects of SKIN: this material. Contact with the molten material may cause thermal burns. Skin absorption of this material is unlikely.
- Ingestion of this product is highly unlikely. However, if swallowed no harmful effects are expected from INGESTION: this material.
- In common with most organic materials, thermal degradation and combustion byproducts may be toxic and should not be inhaled. (See Comments below and the Thermal Degradation and Combustion INHALATION: Byproducts Section for more specific information.)

CHRONIC HEALTH HAZARDS: None Known.

# MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

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.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### INGREDIENTS (Chemical/Common Names):

**Proprietary Mixture** 

Base polymer materials are olefin copolymers.

### SECTION 4: FIRST AID MEASURES

- EYE CONTACT: If eye irritation occurs, hold eyelids apart and flush affected area(s) with clean water. Seek medical attention.
- First Aid is normally not required. After handling product, it is good work practice to wash your hands. If molten material contact skin, cool area immediately in water. DO NOT attempt to remove SKIN CONTACT: material from the skin. Treat as a burn, and seek medical attention.
  - Not a normal route of exposure. However, if swallowed and symptoms develop seek medical INGESTION: attention.
  - 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 INHALATION: should administer oxygen. Seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. Keep victim warm and quiet; seek immediate medical attention.

NOTE TO PHYSICIANS:

#### Not applicable

SECTION 5: FIRE-FIGHTING MEASURES

### FLAMMABLE PROPERTIES

FLASHPOINT: METHOD USED:

Not applicable Not applicable

FLAMMABLE LIMITS

UPPER FLAMMABILITY LIMIT (% BY VOLUME): LOWER FLAMMABILITY LIMIT (% BY VOLUME): Not applicable Not applicable

Not applicable AUTOIGNITION TEMPERATURE:

SUITABLE EXTINGUISHING MEDIA:

carbon dioxide X water X dry chemical X foam X other \_

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.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive demand mode when fighting fires. Avoid any vapors given off if the product is heated to decomposition, as shown by a darkening and browning. 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.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic fumes may be given off in a fire. See also sections on Thermal Degradation and Combustion Byproducts and Other Precautions.

### SPECIFIC HAZARDS IN CASE OF FIRE:

Avoid any vapors given off if the product is heated to decomposition, as shown by a darkening and browning. 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.

### HAZARDOUS COMBUSTION PRODUCTS:

In common with most organic materials, 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 may include, but are not limited to carbon monoxide, carbon dioxide, organic acids, aldehydes (including formaldehyde) and alcohols, oxides of nitrogen and silicon, acetic acid, vinyl acetate, and aromatic and aliphatic hydrocarbons.

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#### Additional Information

Avoid heating products beyond temperatures required for normal installation. See installation instructions for proper installation procedures. If product chars or burns, immediately stop heating. Avoid inhaling any fumes, which may be given off under such circumstances. Allow any vapors to disperse and ventilate before continuing work in the area.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS:

Wear appropriate personal protection when responding, as specified under Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION below. Evacuate all personnel from affected area. Use self-contained breathing apparatus, if necessary, to enter area. Ventilate area of leak or move leaking container to a well-ventilated area.

#### ENVIRONMENTAL PRECATIONS:

Prevent spilled material from entering sewers and waterways.

SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS:

Take measures to stop the leak at the source.

#### SECTION 7: HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING AND STORAGE:

Handling: Refer to Tyco product installation instructions. Operating temperature range is between 40 to 130°C. Ensure adequate ventilation of the work place; avoid breathing vapors and contact with skin and eyes. Do not eat, drink, or smoke in the work area. Wash hands after handling material.

Storage: Keep container tightly closed. Store in a cool, dry, and well-ventilated location away from direct sunlight. Keep away from ignition sources, oxidizing agents, and acids.

OTHER PRECAUTIONS (e.g.; Incompatibilities): None Known

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/SYSTEM DESIGN INFORMATION:

None required under normal use conditions.

#### **VENTILATION:**

Ensure adequate ventilation during installation.

**RESPIRATORY PROTECTION:** 

If installation occurs in a confined, unventilated area, NIOSH/MSHA-approved air-supplied respirators are recommended.

EYE PROTECTION:

Wear protective glasses with side shields. Chemical goggles should be used if eye contact is anticipated.

#### SKIN PROTECTION:

If it is necessary to handle grossly overheated or fire-damaged products, wear natural rubber gloves to prevent possible contact with potentially corrosive inorganic acid residues.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

OSHA, ANSI, or NIOSH guidelines should be followed. If there is a danger of molten material contacting the skin or eyes, use eye/face protection and heat resistant gloves.

#### **EXPOSURE GUIDELINES & LIMITS:**

None of the ingredients appear on the lists below.

5	of the ingredients appear	
	OSHA	Permissible Exposure Limit (PEL/TWA)
	ACGIH	Threshold Limit Value (TLV)
		Short-Term Exposure Limit
	Quebec	Permissible Exposure Value (PEV)
		Short Term Exposure Limit
	Ontario	Occupational Exposure Level (OEL)
		Short Term Exposure Value
	Germany	Maximale Arbeitsplatzkonzentrationen (MAK)
		Short-Term Limit (30-minutes)

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United Kingdom

Occupational Exposure Standard (OES) Short-term Exposure Standard

TWA - 8-Hour Time Weighted Average/ NE - Not Established

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ODOR: ODOR THRESHOLD:	Red or black solid tape. No odor Not available	
PHYSICAL STATE:	Solid .	
pH:	Not available	
BOILING POINT:	Not applicable	
MELTING POINT:	Not available	
FREEZING POINT:	Not available	
VAPOR PRESSURE (mmHg @ 20°C):	Not applicable	
VAPOR DENSITY (AIR = 1):	Not applicable	
SPECIFIC GRAVITY (H2O = 1):	0.93	
EVAPORATION RATE (Butyl acetate=1):	Not applicable	
SOLUBILITY IN WATER:	insoluble	
FLASH POINT:	Not available	
AUTO-IGNITION TEMPERATURE:	Not available	
LOWER EXPLOSIVE LIMIT (LEL):	Not applicable	
UPPER EXPLOSIVE LIMIT (UEL):	Not applicable	
PARTITION COEFFICIENT:	Not applicable	
VISCOSITY (centipoise @ 25° C):	Not available	
DECOMPOSITION TEMPERATURE:	Not available	

FLAMMABILITY/HMIS HAZARD CLASSIFICATIONS (US/CN/EU): HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0

### SECTION 10: STABILITY AND REACTIVITY

STABILITY:	This product is stable under normal conditions, at ambient temperature.
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong oxidizers, acids and reducing agents (peroxides or nitrosating agents).
HAZARDOUS DECOMPOSITION OR BY- PRODUCTS:	See Section 5: FIRE FIGHTING MEASURES (Hazardous Combustion Products).
HAZARDOUS POLYMERIZATION:	Will not occur. No known polymerization conditions to avoid.
CONDITIONS TO AVOID:	Avoid overheating of product.

### SECTION 11: TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY/EFFECTS OF ACUTE OVEREXPOSURE:

Eye Contact: Contact with the molten material may cause thermal burns.

Skin Contact: This product is not expected to be a skin irritant. Repeated contact may cause an allergic skin reaction in sensitized individuals. Persons with pre-existing skin disorders may be more susceptible to the effects of this material. Contact with the molten material may cause thermal burns. Skin absorption of this material is unlikely.

Ingestion (Swallowing): Ingestion of this product is highly unlikely. However, if swallowed no harmful effects are expected from this material.

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Inhalation (Breathing): In common with most organic materials, thermal degradation and combustion byproducts may be toxic and should not be inhaled. (See Comments below and the Thermal Degradation and Combustion Byproducts Section for more specific information.)

EFFECTS OF CHRONIC OVEREXPOSURE Carcinogenicity:

Warning: This chemical contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Reproductive Toxicity: This chemical contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Teratogenicity: This chemical contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Mutagenicity: This chemical contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Toxicologically Synergistic Products: None known

#### SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE & DEGRADABILITY: No data available on biodegradation. BIO-ACCUMULATIVE POTENTIAL (Including Mobility): No data available on bioaccumulation.

AQUATIC TOXICITY (Test Results & Comments): No data available on aquatic toxicity.

Additional Information

No known effects on stratospheric ozone depletion. ۰

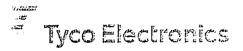
Water Endangering Class (WGK): NA ٥

### SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	This material is classified as a hazardous wasle.
HAZARDOUS WASTE	This material is classified as a hazardous waste. All the components of this product are listed on the Domestic Substances List (DSL) or Non-Domestic substances List (NDSL).
CLASS/CODE:	US - Not applicable to material as manufactured for distribution into commerce. CN – Not applicable to material as manufactured for distribution into commerce. EWC – Not applicable to material as manufactured for distribution into commerce.
Additional Information	

Additional Information

Not Included - Dispose/Recycle as allowed by local jurisdiction for the end-of-life characteristics as-disposed.



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# MATERIAL SAFETY DATA SHEET RAY2015

	SECTION 14: TRANSPOR	RT INFORMATION		
-				
	GROUND - US-DOT/CAN-T Proper Shipping Name	Not regulated		
	Hazard Class	NA	ID Number	NA
	Packing Group	NA	Labels	NA
	AIRCRAFT - ICAO-IATA:	blat as substant		
	Proper Shipping Name	Not regulated	ID Number	NA
	Hazard Class	NA NA	Labels	NA
	Packing Group	1125		
	VESSEL - IMO-IMDG:			
	Proper Shipping Name	Not regulated	ID Number	NA
	Hazard Class	NA	Labels	NA
	Packing Group	NA	Labolo	
-	Additional Information	e e e e e e e e e e e e e e e e e e e	- Indian the Neture and	Quantity of goods their applicab
	<ul> <li>Transport requires pro</li> </ul>	pper packaging and paperwork, ir ms points as-shipped. Statement of	Jurisdictional/Modal Specie	al Provision(s) required.
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	<ul> <li>Not a Marine Pollutant a</li> </ul>	as-shipped per IMO/IMDG.		
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Canadian Domestic Substance List (DSL)

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All ingredients remaining in the product as distributed into commerce are included on the Domestic Substances List. WHMIS Classifications

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations."

#### NPRI and Ontario Regulation 127/01

This product contains the following chemicals subject to	the reporting requirements of	of Canada NPRI and/or Onl. I	Reg. 127/01:
Chemical	CAS #	<u>% Wt</u>	
None	None	None	

European Inventory of Existing Commercial Chemical Substances (EINECS)

All ingredients remaining in the product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.

European Communities (EC) Hazard Classification according to directives 67/548/EEC and 1999/45/EC.

<u>R-Phrases</u>	
None	

S-Phrases None

### Additional Information

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This product may be regulated under additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution into specific domestic destinations.

SECTION 16: OTHER	(INFORMATION	

#### OTHER INFORMATION:

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2). Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.

### MSDS/SDS PREPARATION INFORMATION:

DATE OF ISSUE: March 17, 2009 SUPERCEDES: March 1997

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