

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** Thermofit S-1125 Adhesive, Parts A and B**MANUFACTURER:** Tyco Electronics Corporation**DIVISION:****ADDRESS:** 300 Constitution Drive
Menlo Park, CA 94025-1164 USA**SUPPLIERS****EMERGENCY TELEPHONE NUMBERS:** US: CHEMTREC 1-800-424-9300
CN: CHEMTREC 1-800-424-9300
Outside North America: 1-703-527-3887
(Collect calls accepted)**NON-EMERGENCY HEALTH/SAFETY INFORMATION:** North America: 1- 650-361-4907**CHEMICAL FAMILY:** Epoxy**PRODUCT USE:** This product is a two-part epoxy resin. This adhesive is intended for use in conjunction with other Raychem products.

This product may contain a hazardous substance or preparation that is 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 Labeling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH). A MSDS/SDS is required for this product because when used as recommended or intended under ordinary conditions, it may present a health and safety exposure or other hazard.

SECTION 2: HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:** Avoid all personal contact. Causes skin irritation and severe eye burns. In case of eye contact, flush well with water and seek immediate medical attention. In case of skin contact, wash well with mild soap and water and seek medical attention if irritation persists. If ingested, DO NOT induce vomiting. If vomiting occurs spontaneously, keep airway clear. If victim is conscious and alert, give at least one glass of water to drink and seek immediate medical attention. In case of inhalation where symptoms of exposure develop, move victim to fresh air. If symptoms persist, seek medical attention.**POTENTIAL HEALTH EFFECTS:**

The health effects described below refer to the uncured resin, Parts A & B. The information presented below corresponds to the individual components of this product. Toxicity studies have not been performed on the mixture as a whole.

ACUTE HEALTH HAZARDS:**EYES:** **Part A:** This material is corrosive. Direct contact with the product or exposure to vapors or mists can cause severe burns to the eyes. Symptoms may include cloudy appearance of the cornea, chemical burns, pain, tearing, ulcers, impaired vision, or loss of vision. Direct contact or exposure to vapors or mists may cause stinging, tearing, redness, swelling, corneal damage, and irreversible eye damage. Persons with pre-existing eye disorders may be more susceptible to the effects of this material.**Part B:** This material is an eye irritant. Direct contact or exposure to vapors or mists may cause stinging, tearing, redness, swelling, and hazy vision. Persons with pre-existing eye disorders may be more susceptible to the effects of this material.**SKIN:** **Part A:** This material may cause mild skin irritation. Symptoms of exposure may include redness, swelling, and itching. Prolonged contact may cause redness and burning of the skin. 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.**Part B:** This material may cause mild skin irritation. Symptoms of exposure may include redness, swelling, and itching. Prolonged contact may cause redness and burning of the skin. 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.

- SKIN ABSORPTION:** **Part A:** There is insufficient information available to predict the effects from skin absorption.
Part B: There is insufficient information available to predict the effects from skin absorption.
- INGESTION:** **Part A:** Ingestion of this product is highly unlikely if used as intended. However, if swallowed in excessive quantities, this material may cause pain, abdominal tenderness, nausea, diarrhea, blood in vomits, blood in feces, and gastrointestinal irritation.
Part B: Ingestion of this product is highly unlikely if used as intended. However, if swallowed in excessive quantities, this material may cause pain, abdominal tenderness, nausea, diarrhea, blood in vomits, blood in feces, and gastrointestinal irritation.
- INHALATION:** **Part A:** Vapors produced during heat curing may cause irritation of the upper respiratory tract. Symptoms may include soreness of the nose and throat, coughing, and sneezing. Pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to this material.
Part B: Vapors produced during heat curing may cause irritation of the upper respiratory tract. Symptoms may include soreness of the nose and throat, coughing, and sneezing. Pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to this material.

CHRONIC HEALTH HAZARDS:

Not known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Overheating the material to temperatures above 149°C (300°F) may produce vapors that may cause eye, skin, nose, and throat irritation. Respiratory symptoms associated with pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to overheated material.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS (Chemical/Common Names):	CAS No.:	% by Wt:	EC No.:
Part A: Amine Terminated Polymer	68911-25-1	40 - 70	NE
Kaolin	1333-58-7	30 - 60	NE
Part B: Bisphenol A/Epichlorohydrin Epoxy Resin	25068-38-6	70-80	NE
Kaolin	1333-58-7	20 - 30	310-194-1
Carbon Black*	1333-86-4	1	215-609-9

The carbon black and Kaolin are physically bound within the resin matrix

NA – Not applicable/NE – Not Established/ND – Not determined

SECTION 4: FIRST AID MEASURES

This product is a two-part epoxy resin. The first aid statements described below refer to exposure to Part A or Part B of the uncured resin.

- EYE CONTACT:** Hold eyelids apart and flush affected eye(s) immediately with clean water for at least 15 minutes. Seek immediate medical attention.
- SKIN CONTACT:** Flush skin with plenty of water and wash affected area(s) with mild soap and water. Remove contaminated clothing and wash before reuse. Thoroughly clean shoes before reuse. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse. If irritation persists or allergic symptoms develop, seek medical attention.
- INGESTION:** Not a normal route of exposure. DO NOT induce vomiting. If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving one glass of water to drink. Seek immediate medical attention.
- INHALATION:** If respiratory symptoms or other symptoms of exposure develop, move victim to fresh air and seek medical attention. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention. If victim is not breathing, move to fresh air and

immediately begin artificial respiration. Keep victim warm and quiet; seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES**FLAMMABLE PROPERTIES**

FLASHPOINT: Part A: >240°C (>464°F) Part B: >240°C (>464°F)

METHOD USED: Part A: Not Available Part B: Not Available

FLAMMABLE LIMITS

UPPER FLAMMABILITY LIMIT (% BY VOLUME): Not established

LOWER FLAMMABILITY LIMIT (% BY VOLUME): Not established

AUTOIGNITION TEMPERATURE: Not determined

SUITABLE EXTINGUISHING MEDIA:

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.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:

Firefighters should wear self-contained breathing apparatus operated in the positive pressure demand mode when fighting fires. Use water spray to cool nearby containers and structures exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Sensitivity To Static Discharge: None known.

Sensitivity To Mechanical Impact: None known.

SPECIFIC HAZARDS IN CASE OF FIRE:

None Known

HAZARDOUS COMBUSTION PRODUCTS:

Degradation and combustion by products may be toxic and should not be inhaled. Thermal degradation is not significant at temperatures achieved during proper application, as directed by product instructions. If the products are exposed to excessive heat or most significantly if the products are burned, the thermal degradation products may include, but are not limited to, carbon monoxide, carbon dioxide, nitrogen compounds, amine compounds, acids, aldehydes, and toxic vapors, gases, or particulates.

SECTION 6: ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS:**

Wear appropriate personal protection when responding, as specified under Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENVIRONMENTAL PRECATIONS:

Prevent spilled material from entering sewers and waterways.

SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS:

Sweep up and collect in a suitable container for disposal or reuse.

SECTION 7: HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING AND STORAGE:**

Handling: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Application of adhesive (Parts A and B) should be done in a well-ventilated area in accordance with good industrial hygiene practice. Parts A and B release heat when combined.

Storage: Store in a cool, dry, well-ventilated area.

OTHER PRECAUTIONS (e.g.; Incompatibilities):

Heating resin above 149°C (300°F) in the presence of air may cause slow oxidative decomposition. Above 260°C (500°F)

polymerization may occur. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do not breathe fumes.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/SYSTEM DESIGN INFORMATION:

None required under normal use conditions.

VENTILATION:

Provide general or local exhaust ventilation systems

RESPIRATORY PROTECTION:

If ventilation is inadequate to keep airborne concentrations below the established exposure limits (see Exposure Guidelines below), the use of respiratory protection is recommended. Depending on the airborne concentration of material, a NIOSH/MSHA-approved air purifying respirator with a combination organic vapor/HEPA cartridge is recommended. Thermal degradation is possible at excessive temperatures; therefore, NIOSH/MSHA-approved air-supplied respirators are recommended.

EYE PROTECTION:

Use safety glasses with side shield or goggles to prevent contact.

SKIN PROTECTION:

Avoid prolonged or repeated contact with skin. Wear rubber gloves to prevent or minimize contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

EXPOSURE GUIDELINES & LIMITS:

There are no exposure limits applicable to this product as supplied or used.

Part A

AMINE TERMINATED POLYMER (POLYAMIDE/AMINE BLEND)

OSHA	Permissible Exposure Limit (PEL/TWA)	Not established
ACGIH	Threshold Limit Value (TLV)	Not established
Quebec	Permissible Exposure Value (PEV)	Not established
Germany	Maximale Arbeitsplatzkonzentrationen (MAK)	Not established
United Kingdom	Occupational Exposure Standard (OES)	Not established

Part B:

BISPHENOL A/EPICHLOROHYDRIN EPOXY RESIN

OSHA	Permissible Exposure Limit (PEL/TWA)	Not established
ACGIH	Threshold Limit Value (TLV)	Not established
Quebec	Permissible Exposure Value (PEV)	Not established
Ontario	Occupational Exposure Level (OEL)	Not established
Germany	Maximale Arbeitsplatzkonzentrationen (MAK)	Not established
United Kingdom	Occupational Exposure Standard (OES)	Not established

Part B:

KAOLIN

		15 mg/m ³ (total dust)
		5 mg/m ³ (resperable fraction)
OSHA	Permissible Exposure Limit (PEL/TWA)	
ACGIH	Threshold Limit Value (TLV)	10 mg/m ³ (inhalable fraction)
		2 mg/m ³ (resperable fraction)
		10 mg/m ³ (inhalable)
Ontario	Occupational Exposure Level (OEL)	3 mg/m ³ (resperable)
Germany	Maximale Arbeitsplatzkonzentrationen (MAK)	Not established

	United Kingdom	Occupational Exposure Standard (OES)	Not established
Part B:			CARBON BLACK
	OSHA	Permissible Exposure Limit (PEL/TWA)	3.5 mg/m3
	ACGIH	Threshold Limit Value (TLV)	3.5 mg/m3
	Ontario	Occupational Exposure Level (OEL)	3.5 mg/m3
	Germany	Maximale Arbeitsplatzkonzentrationen (MAK)	Not established
	United Kingdom	Occupational Exposure Standard (OES)	Not established

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	<u>Part A:</u> Viscous grey paste <u>Part B:</u> Viscous black paste
ODOR:	<u>Part A:</u> Slight ammonia odor. <u>Part B:</u> Slight odor.
ODOR THRESHOLD:	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
PHYSICAL STATE:	<u>Part A:</u> Viscous liquid <u>Part B:</u> Viscous liquid
pH:	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
BOILING POINT:	<u>Part A:</u> >150°C (>302°F) <u>Part B:</u> >150°C (>302°F)
MELTING POINT:	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
FREEZING POINT:	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
VAPOR PRESSURE (mmHg @ 25°C):	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
VAPOR DENSITY (AIR = 1):	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
SPECIFIC GRAVITY (H2O = 1):	<u>Part A:</u> 1.26 <u>Part B:</u> 1.33
EVAPORATION RATE (Butyl acetate=1):	<u>Part A:</u> Not determined <u>Part B:</u> Not determined
SOLUBILITY IN WATER:	<u>Part A:</u> Insoluble <u>Part B:</u> Insoluble
FLASH POINT:	<u>Part A:</u> Not established <u>Part B:</u> Not established
AUTO-IGNITION TEMPERATURE:	<u>Part A:</u> Not established <u>Part B:</u> Not established
LOWER EXPLOSIVE LIMIT (LEL):	<u>Part A:</u> Not established <u>Part B:</u> Not established
UPPER EXPLOSIVE LIMIT (UEL):	<u>Part A:</u> Not established <u>Part B:</u> Not established

PARTITION COEFFICIENT: Part A: Not determinedPart B: Not determined**VISCOSITY (centipoise @ 25° C):** Part A: 40000 - 80000Part B: 75000 - 150000**DECOMPOSITION TEMPERATURE:** Part A: Not determinedPart B: Not determined**FLAMMABILITY/HMIS HAZARD CLASSIFICATIONS (US/CN/EU):**Part A

HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0

Part B

HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	This product is stable under normal conditions, at ambient temperature.
INCOMPATIBILITY (MATERIAL TO AVOID):	Uncured resins may react exothermically (release heat) with acids, bases, and strong oxidizing 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 excessive heat for prolonged periods of time. Do not cure a mass large than 50 grams in a confined space, as this may cause a reaction generating intense heat and smoke.

SECTION 11: TOXICOLOGICAL INFORMATION**ROUTES OF ENTRY**

Skin absorption may occur, but there is insufficient evidence to predict the effects resulting from this route of exposure. Eye contact may also occur. Inhalation of vapors may occur during heat curing of the product. Ingestion is unlikely to occur in normal use.

ACUTE TOXICITY (Test Results Basis and Comments):

Part A causes severe eye burns and mild skin irritation. Part B causes skin and eye irritation. Inhalation of heated product (Part A or Part B) may cause irritation of the upper respiratory tract.

Information below refers only to the principal component of each Part of this product.

LD₅₀ / LC₅₀:	<u>Part A:</u> Amine Terminated Polymer:	Not Available
	<u>Part B:</u> Bisphenol A/Epichlorohydrin Epoxy Resin:	LD ₅₀ (rat, acute oral): 11.4 g/kg LD ₅₀ (mouse, acute oral): 15.6 g/kg LD ₅₀ (rabbit, acute dermal): >20 mL/kg
	Kaolin:	LD ₅₀ (rat, oral): >5 g/kg
	Carbon Black:	LD ₅₀ (rat, oral): >15400 mg/kg LD ₅₀ (rabbit, dermal): >3 g/kg

Note: While the toxicological data provided above have been obtained for kaolin and carbon black, these materials are bound within the resin matrix of the product and are not available for exposure.

SUBCHRONIC/CHRONIC TOXICITY (Test Results and Comments):

Both Part A and Part B are potential sensitizers.

IRRITANCY OF PRODUCT: Vapors from the heated product may cause irritation of the eyes, skin, nose, and throat.

SENSITIZATION TO MATERIAL: Not known.

CARCINOGENICITY:

Part A: The ingredients of this product, present at equal to or greater than 0.1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.

Part B: Carbon Black is classified by IARC as possibly carcinogenic to humans (Group 2B), when resperable.

REPRODUCTIVE TOXICITY: None known.

TERATOGENICITY: None known.

MUTAGENICITY:

Part A: None know.

Part B: A component of Part B of this product (Bisphenol A/Epichlorohydrin Epoxy Resin) is positive in *in vitro* microbial mutagenicity screening tests, and has produced chromosomal aberrations in cultured rat liver cells. It has, however, proven to be inactive when tested in *in vivo* mutagenicity assays. (Note: Mutagenicity assays are a means to identify if a chemical may cause changes in the genetic material (DNA) of a cell.) What these findings mean to humans is uncertain.

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.
- Water Endangering Class (WGK): NA

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Treatment, storage, and disposal must be in accordance with applicable, federal, state, provincial, and local regulations.

HAZARDOUS WASTE 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

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

SECTION 14: TRANSPORT INFORMATION

GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR:

Proper Shipping Name	Not Subject to HMR		
Hazard Class	NA	ID Number	NA
Packing Group	NA	Labels	NA

AIRCRAFT – ICAO-IATA:

Proper Shipping Name	Not Subject to DGR		
Hazard Class	NA	ID Number	NA
Packing Group	NA	Labels	NA

VESSEL – IMO-IMDG:

Proper Shipping Name	Not Subject to IMDG		
Hazard Class	NA	ID Number	NA
Packing Group	NA	Labels	NA

Additional Information

- Transportation must be in accordance with applicable, federal, state, provincial, and local regulations.
- Transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped. Statement of Jurisdictional/Modal Special Provision(s) required.
- Not restricted for any mode of international transport as finished goods.
- Not a Marine Pollutant as-shipped per IMO/IMDG.

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS:
All components are listed on the TSCA; EINECS/ELINCS; and DSL, unless noted otherwise below.

U.S. FEDERAL REGULATIONS:

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b – Export Notification: If the product contains chemicals subject to TSCA Section 12b export notification they are listed below:

<u>Chemical</u>	<u>CAS #</u>
None	NA

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Chemicals present in the product which could require reporting under the statute:

<u>Chemical</u>	<u>CAS #</u>
None	NA

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

If the product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III, they are listed below.

<u>Chemical</u>	<u>CAS #</u>	<u>% wt</u>
None	NA	NA

CERCLA SECTION 311/312 HAZARD CATEGORIES: Note that this product is exempt from these regulations.

Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
Immediate Hazard	No
Delayed Hazard	No

STATE REGULATIONS (US):

California Proposition 65

The following chemicals identified to exist in the product as distributed into commerce are known to the State of California to cause cancer, birth defects, or other reproductive harm:

<u>Chemical</u>	<u>CAS #</u>	<u>% Wt</u>
None	NA	NA

INTERNATIONAL REGULATIONS (Non-US):

Canadian Domestic Substance List (DSL)

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

WHMIS Classifications

Information below refers only to the principal component of each Part of this product.

Part A: D2B Toxic Material Causing Other Toxic Effects (skin sensitization in animals).

E – Corrosive Material

Part B: D2A Very Toxic Material Causing Other Toxic Effects carcinogenicity: IARC group 2B

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 Canada NPRI and/or Ont. Reg. 127/01:

<u>Chemical</u>	<u>CAS #</u>	<u>% Wt</u>
Carbon Black*	1333-86-4	1

European Inventory of Existing Commercial Chemical Substances (EINECS)

This chemical substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

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

Information below refers only to the principal component of each Part of this product.

R-Phrases

S-Phrases

Additional Information

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:

Department Issuing MSDS: Tyco Electronics, Menlo Park

Contact: Robin Adair, EHS Programs Manager

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