# Safety Data Sheet



Revision Number: 005.0

### 1. PRODUCT AND COMPANY IDENTIFICATION

## Product name: Product type:

LOCTITE TCF 1000 TC known as Thermtrate 1.75 x 1.25 Material (PCTIM)

Restriction of Use: Company address: Henkel Electronic Materials LLC 14000 Jamboree Road Irvine, CA 92606

Phase Change Thermal Interface None identified

**IDH number:** 

995652

Item number: TC-175-125A

Region: **United States Contact information:** Telephone: +1 (888) 943-6535 MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkel.com/electronics

## 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW WARNING: CAUSES SKIN IRRITATION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)

#### **Precautionary Statements**

Prevention:	Avoid breathing dust or fumes. Wash thoroughly after handling. Use only outdoors or in a well- ventilated area. Wear eve and face protection. Wear protective gloves.
Response:	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and
Response.	keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to remove. Continue rinsing. Call a poison control center or physician if you
	feel unwell. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical
	attention. Take off contaminated clothing.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local
-	governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name: LOCTITE TCF 1000 TC known as Thermtrate 1.75 x 1.25 Page 1 of 6

Hazardous Component(s)	CAS Number	Percentage*
Petrolatum	8009-03-8	30 - 60
Zinc oxide	1314-13-2	10 - 30

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

Inhalation:		
	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.	
Skin contact:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, g medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Giv a conscious person several glasses of water. Never give anything by mouth an unconscious person. If symptoms develop and persist, get medical attention.	
Symptoms:	See Section 11.	
5. FI	RE FIGHTING MEASURES	
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.	
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such a turn-out gear. In case of fire, keep containers cool with water spray.	
Unusual fire or explosion hazards:	Fumes and vapors from thermal decompositions vary in composition and toxicity.	

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.	
Clean-up methods:	Wear suitable protective clothing, gloves and eye/face protection. If product is spilled in the solid state, pick up and place in an appropriate waste disposal container. If product is spilled in the molten state, allow product to solidify before scraping up and disposing of in an appropriate waste disposal container.	

### 7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

Storage:

For safe storage, store at or below 35 °C (95°F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Petrolatum	5 mg/m3 TWA Inhalable fraction. Exposure by all routes should be carefully controlled to levels as low as possible. Included in the regulation but with no data values. See regulation for further details	5 mg/m3 PEL Mist.	None	None
Zinc oxide	2 mg/m3 TWA Respirable fraction. 10 mg/m3 STEL Respirable fraction.	5 mg/m3 PEL Fume. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None

Engineering controls:

**Respiratory protection:** 

Eye/face protection:

Skin protection:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Safety goggles or safety glasses with side shields.

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Waxy, Solid

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate:

White, Gray None Not available. Not available. Not available. Not available. 60 °C (140°F) 0.92 Not available. 221 °C (429.8 °F) Cleveland open cup Not available. Not available. Not available. Not available. Not available. Solubility in water: Partition coefficient (n-octanol/water): **VOC content:** Viscosity: Decomposition temperature:

Insoluble Not available. 0 % Not available. Not available.

10. STABILITY AND REACTIVITY			
Stability:	Stable at normal conditions.		
Hazardous reactions:	None under normal processing.		
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Hydrocarbons.		
Incompatible materials:	Strong oxidizing agents.		
Reactivity:	Not available.		
Conditions to avoid:	Store away from incompatible materials. Heat, flames, sparks and other sources of ignition.		

#### **11. TOXICOLOGICAL INFORMATION**

Relevant routes of exposure:

Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:

Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause respiratory tract irritation. Skin contact: Causes skin irritation. Eye contact: Causes serious eye irritation. Not expected to be harmful by ingestion. Ingestion:

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Petrolatum	None	Irritant
Zinc oxide	Oral LD50 (RAT) = > 5 g/kg Blood, Gastroint Irritant, Kidney, Me Pancreas,	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Petrolatum	No	No	No
Zinc oxide	No	No	No

### **12. ECOLOGICAL INFORMATION**

**Ecological information:** 

Not available.

#### **13. DISPOSAL CONSIDERATIONS** Information provided is for unused product only. Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal. Hazardous waste number: Not a RCRA hazardous waste. 14. TRANSPORT INFORMATION The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration. U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None International Air Transportation (ICAO/IATA) Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None Water Transportation (IMO/IMDG) Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None **15. REGULATORY INFORMATION United States Regulatory Information** TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. TSCA 12 (b) Export Notification: None above reporting de minimis CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health **CERCLA/SARA Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Zinc oxide (CAS# 1314-13-2). This product contains a chemical known in the State of California to cause cancer. This **California Proposition 65:** product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**Canada Regulatory Information** 

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

#### **16. OTHER INFORMATION**

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

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