

Revision Number: 007.0 Issue date: 01/12/2016

1. PRODUCT AND COMPANY IDENTIFICATION

LOCTITE TCF 4000 PXF known as Product name: PowerstrateXtreme PXF 18x14x.00

Product type: Phase Change Thermal Interface

Material (PCTIM)

Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

WARNING:

IDH number: 1058883

Item number: PXF-1800-1400-8

Region: **United States**

Contact information:

Telephone: +1 (860) 571-5100

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.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS.

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 eye and face protection. Wear protective gloves.

IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Response:

Remove contact lenses, if present and easy to do. 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

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Hazardous Component(s)	CAS Number	Percentage*
Spherical aluminum powder	7429-90-5	60 - 100
Hydrocarbon co-oligomer	Proprietary	5 - 10
Hydrocarbon waxes, petroleum, clay- treated microc	64742-42-3	1 - 5

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

4. FIRST AID MEASURES

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, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before

reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. If symptoms develop

and persist, get medical attention.

Symptoms: See Section 11.

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5. FIRE 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 as

turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of aluminum. Hydrocarbons.

Aluminum reacts exothermically with water, acids, and alkalis to produce

hydrogen.

6. ACCIDENTAL RELEASE MEASURES

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. Do not breathe gas/fumes/vapor/spray. Keep

container closed. Wash thoroughly after handling.

Storage: 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
Spherical aluminum powder	1 mg/m3 TWA Respirable fraction.	15 mg/m3 PEL (as AI) Total dust. 5 mg/m3 PEL (as AI) Respirable dust.	None	None
Hydrocarbon co-oligomer	None	None	None	None
Hydrocarbon waxes, petroleum, clay- treated microc	None	None	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection:Use impermeable gloves and protective clothing as necessary to prevent skin

contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Color: Metallic, Gray
Odor: None
Odor threshold: Not available.
pH: Not available.
Vapor pressure: Not available.

Vapor pressure:

Roiling point/range:

Not available.

Not available.

Melting point/ range: 51 °C (123.8 °F) (coating compound)
Melting point/ range: 482 °C (899.6 °F) (aluminum substrate)

Specific gravity: 2.04

Vapor density: Not available.

Flash point: > 200 °C (> 392°F) Cleveland closed cup

Flammable/Explosive limits - lower:
Not available.
Flammable/Explosive limits - upper:
Autoignition temperature:
Not available.
Evaporation rate:
Not available.
Solubility in water:
Insoluble
Partition coefficient (n-octanol/water):
Not available.

VOC content: 0 %; 0 g/l (calculated)

Viscosity:Not available.Decomposition temperature:Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

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Oxides of carbon. Oxides of nitrogen. Hydrocarbons. Metal oxide fumes.

Incompatible materials: Strong oxidizing agents. Fluorine. Chlorine fluoride. Acids. Alkalis. Halogenated compounds.

Water.

Reactivity: Not available.

Conditions to avoid: Exposure to moisture. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

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.

Inhalation of high vapor concentrations may produce respiratory irritation, and may cause

central nervous system (CNS) depression. Dizziness. Headache.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: Not expected to be harmful by ingestion.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Spherical aluminum powder	None	Central nervous system, Irritant, Lung
Hydrocarbon co-oligomer	None	No Target Organs
Hydrocarbon waxes, petroleum, clay- treated microc	None	No Records

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Spherical aluminum powder	No	No	No
Hydrocarbon co-oligomer	No	No	No
Hydrocarbon waxes, petroleum, clay- treated microc	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). Spherical aluminum powder (CAS# 7429-90-5).

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Export Restrictions: This product is controlled for export by the United States Department of Commerce. The Export

Classification Control Number (ECCN) is 1C992.1.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New information added in Section(s): 2

Prepared by: Tricia Voghell, Regulatory Affairs Specialist

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