

MATERIAL SAFETY DATA SHEET

**CHOMERICS DIVISION
PARKER HANNIFIN CORPORATION
77 DRAGON COURT
WOBURN, MA 01888
TEL: 781-935-4850**

SECTION 1 PRODUCT IDENTIFICATION

Product Name: **THERMATTACH T413**
General Name: Thermally Conductive Tape with Fiberglass Carrier

Product Name: **THERMATTACH T414**
General Name: Thermally Conductive Tape with Kapton Carrier

Product Name: **THERMATTACH T424**
General Name: Thermally Conductive Tape with Fiberglass Carrier

SECTION 2 COMPOSITION INFORMATION

<u>Components & CAS No.</u>	<u>Weight %</u>	<u>Exposure Limits</u>
---------------------------------	-----------------	------------------------

This product is an aluminum compound article. The ingredients listed below are encapsulated within the article, therefore, no exposure to these materials is expected during proper use/handling of this product.		
---	--	--

Acrylic Adhesive Proprietary	< 75	Not Established.
---------------------------------	------	------------------

Aluminum Oxide 1344-28-1	< 35	OSHA PEL TWA: 15 mg/m ³ total dust, 5 mg/m ³ respirable dust; ACGIH TLV TWA: 10 mg/m ³ .
-----------------------------	------	---

NOTE: This product is supplied with a release liner on both sides, covering the adhesive, which protects against skin contact with the adhesive.

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: White (T413,T424), Beige (T414) adhesive tape article with little or no odor. This material poses little or no immediate hazard. Thermal decomposition and burning may generate toxic by-products. Refer to other sections of the MSDS for detailed information.

Route of Entry: Eye contact.

THERMATTACH T413, T414 & T424

Acute Effects

Eye: Non-irritating under normal conditions of use.

Skin: Non-irritating under normal conditions of use.

Inhalation: Non-irritating under normal conditions of use.

Chronic Effects: No chronic health effects reported for this product.

Special Conditions Effects: No data is available for this product.

Aggravated Medical Conditions: No data is available for this product.

SECTION 4 FIRST AID MEASURES

Handle in accordance with good industrial hygiene and safety practices by avoiding unnecessary exposure and by removing material from the eyes, skin and clothing.

Eye: No first aid should be necessary.

Skin: No first aid should be necessary.

Inhalation: No first aid should be necessary.

Ingestion: No first aid should be necessary.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Autoignition Temp: Not determined.

Flammability Limits: Not applicable.

Extinguishing Media: Carbon dioxide, water, water foam, dry chemical.

Fire Fighting Procedures: Use self-contained breathing apparatus and chemical-resistant clothing. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

Unusual Fire Hazards: Decomposition and combustion products may be toxic.

THERMATTACH T413, T414 & T424

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill response operations must be conducted in accordance with the provisions of 29 CFR 1910.120. Observe all recommendations identified in Sections 5 and 8.

Procedures: Sweep or pick up and place into containers for disposal.

SECTION 7 HANDLING AND STORAGE

Handling: No special precautions.

Storage: No special precautions.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

The recommendation described in this section are provided as general guidance for minimizing exposure. Because usage conditions vary with customer applications, specific exposure controls should be developed by a person knowledgeable in the intended usage condition and equipment.

Ventilation: Local exhaust ventilation is not required. However, if the product is processed in a manner that generates dusts, mists or fumes, provide ventilation to control airborne levels of Section 2 ingredients below their exposure limits.

Eyes: Wear safety glasses with side shields if operations generate dust, particles, etc.

Skin: Wash thoroughly after handling and before eating or smoking.

Inhalation: Respiratory protection is not required. However, if the product is processed in a manner that generates dusts, mists or fumes, conduct air monitoring to assess the need for respiratory protection.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: T413: White T414: Beige T424: White
Specific Gravity: Not available.
Boiling Point: Not applicable.
Vapor Pressure (25°C): Not applicable.
Vapor Density: Not applicable.
Solubility in Water: Not applicable.
Volatile Content (Wt%): Negligible.

THERMATTACH T413, T414 & T424

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None.

Incompatibilities: Strong oxidizing and reducing agents, acids and bases.

Hazardous Decomposition: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, aluminum compounds, and traces of incompletely burned carbon products.

SECTION 11 TOXICOLOGY INFORMATION

All available toxicology information has been provided in Section 3 of this document.

SECTION 12 ECOLOGICAL INFORMATION

No data on ecological effects is available.

SECTION 13 DISPOSAL INFORMATION

Since regulations vary, consult applicable regulations or authorities before disposing of this material.

SECTION 14 TRANSPORTATION INFORMATION

This product is not regulated as a hazardous material by the U.S. Department of Transportation.

SECTION 15 REGULATORY AND MISCELLANEOUS INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.

SARA 313 Chemicals: None present or none present in regulated quantities.

Date Prepared: 1-17-2001
Supersedes: 6-26-97
Document Number: T413/T414
Prepared By: Chomerics Safety Department

Revisions: Updated format and Sections 11, 12, 13 & 14.

This information and recommendations herein is based upon data considered true and accurate. However, Chomerics makes no warranties, express or implied as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of use of this information and material are not within the control of Chomerics, Chomerics assumes no responsibility for injury to the user or third persons. The material described herein is sold pursuant to Chomerics' Terms and Conditions of Sale, including those limiting warranties and remedies contained therein. It is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.