

THERMATTACH® T412

SDS No: PHC-0733 EU

SDS Preparation Date (dd/mm/yyyy): 29/06/2023

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier : THERMATTACH® T412

Product Code(s) : 67-10-XXXX-T412

SDS No. : PHC-0733 EU

1.2 Relevant identified uses of the substance or mixture and uses advised against

: Thermally conductive tap for heat sinks
Use pattern: professional use.
No restrictions on use known.

1.3 Details of the supplier of the safety data sheet:

Parker Hannifin Ltd.

Engineered Materials Group
Chomerics Division Europe
Unit 6 Century Point
Halifax Road
High Wycombe
Bucks, HP12 3SL
United Kingdom

E-mail: chomerics_europe@parker.com

Website: www.chomerics.com

Telephone : 044 (0) 1494 455 400

1.4 Emergency Telephone Number

: INFOTRAC: (800) 535-5053 (Within Continental US and Canada); + 001 (352) 323-3500 (International)
Poisons Information Centre
The United Kingdom NHS 111
France + 33 3 83 85 21 92
Italy
06 68593726 (CAV "Osp. Pediatrico Bambino Gesu" Dip. Emergenza - Roma) 800 183459 (Az. Osp. Univ. Foggia - Foggia)
081 5453333 (Az. Osp. "A. Cardarelli" - Napoli)
06 49978000 (CAV Policlinico "Umberto I" - Roma)
06 3054343 (CAV Policlinico "A. Gemelli" - Roma)
055 7947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica - Firenze)
0382 24444 (CAV Centro Nazionale di Informazione Tossicologica - Pavia) 02 66101029 (Osp. Niguarda Ca' Granda - Milano)
800 883300 (Azienda Ospedaliera Papa Giovanni XXII - Bergamo)
800 011858 (Azienda Ospedaliera Integrata Verona - Verona)

1.5 National Contact

: E-mail: chomerics_europe@parker.com
Website: www.chomerics.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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Solid article, no odour.

Most important hazards:

As supplied, this product does not present a physical, health or environmental hazard.

The product is an article and is not subject to the classification criteria of Regulation (EC) 1272/2008.

This product falls under the definition of an article under Regulation (EC) No. 1272/2008 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Products with a specific shape, surface or design which determines their function more than their chemical composition). REACH requires that Parker Chomerics inform requestors of the presence of Candidate List Substances of Very High Concern (SVHC) in a concentration of > 0.1% by total weight in Articles. This product does not intentionally contain any substances present on the Candidate List SVHC's.

2.2 Label elements

Hazard pictogram(s)

None required according to Regulation (EC) No. 1272/2008.

Signal word:

None required according to Regulation (EC) No. 1272/2008.

Hazard statements:

EUH210 - Safety data sheet available on request.

Precautionary statements:

None required according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents. Fumes from heated product may irritate respiratory tract. Inhalation of fumes may result in metal fume fever, a flu-like illness. If material is ingested, may cause irritation to mucous membranes.

Endocrine disrupting properties: None known.

PBT assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature : Solid article. Double-sided thermal interface tapes

The following substances shall be indicated according to legislation:

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Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
Nickel	7440-02-0	231-111-4	Not available	<0.1	Carc. 2; H351 STOT RE 1; H372 Skin Sens. 1; H317 Aquatic Chronic 3; H412	Not applicable.

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. When symptoms persist or in all cases of doubt, seek medical advice.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. When symptoms persist or in all cases of doubt, seek medical advice.
- Eye contact* : Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. When symptoms persist or in all cases of doubt, seek medical advice.

4.1.2 Self-protection for the first aider

- : None known or reported by the manufacturer.

4.2 Most important symptoms and effects, both acute and delayed

- : This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.
 Fumes from heated product may irritate respiratory tract. May cause coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.
 If material is ingested, may cause irritation to mucous membranes. May cause nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

- : Not classified as flammable. Burning produces obnoxious and toxic fumes. The pressure in sealed containers can increase under the influence of heat. In the event of fire the following can be released: Metal oxides; Carbon oxides; Other unidentified organic compounds.

5.3 Advice for firefighters

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Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Wear appropriate protective equipment.

6.2 Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil.

6.3 Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Shovel or sweep up. Pick up and transfer to properly labeled containers. Contact the proper local authorities.

6.4 Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Use with adequate ventilation. Use personal protective equipment as required. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

7.3 Specific end use(s)

- : Foil tapes available in copper, aluminum or tinned copper foil, backed with Chomerics' highly conductive pressure-sensitive adhesive. For use in a wide variety of EMI shielding and grounding applications.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits:			
Chemical Name	Exposure Limits	Type	Notes
Nickel	1 mg/m ³ (TWA)	France (OEL)	None.
	None.	Italy (OEL)	None.
	0.5 mg/m ³ (TWA)	The United Kingdom (WELs)	Potential for cutaneous absorption

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Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL)
(CAS # 7440-02-0)

General population oral systemic effects long term exposure: 0.011 mg/kg
General population dermal systemic effects long term exposure: 0.035 mg/kg
General population inhalation local effects long term exposure: 0.60mg/m³
General population inhalation local effects acute/short term exposure: 0.8mg/m³
General population inhalation systemic effects long term exposure: 60mg/m³

Predicted No Effect Concentration (PNEC)
(CAS # 7440-02-0)

Fresh water 7.1 µg/L
Marine water 8.6 µg/L
Sediment Fresh water 109 mg/kg
Sediment Marine water 109 mg/kg
Sewage treatment 0.33 mg/L
Soil 29.9 mg/kg

8.2 Exposure controls

Ventilation and engineering measures

: Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

: not required under normal use
If airborne concentrations are above the permissible exposure limits or are not known, respiratory protection may be required. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Seek advice from respiratory protection specialists.

Skin protection

: not required under normal use.
For prolonged or repeated contact use protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection

: not required under normal use.
If product is processed in a manner that generates dusts or fumes, wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields See also EN 166. .

Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

: Avoid release to the environment.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	: Solid article. Double-sided thermal interface tapes
Colour	: various
Odour	: No odour.
Odour threshold	: No information available.
pH	: Not applicable.
Flash point	: Not applicable.
Flashpoint (Method)	: Not applicable.
Lower flammable limit (% by vol.)	: Not applicable.
Upper flammable limit (% by vol.)	: Not applicable.
Auto-ignition temperature	: No information available.
Decomposition temperature	: No information available.
Oxidizing properties	: None known.
Explosive properties	: Not explosive
Initial boiling point and boiling range	: No information available.
Melting/Freezing point	: No information available.
Relative density	: No information available.
Solubility in water	: Insoluble.
Other solubility(ies)	: No information available.
Vapour pressure	: No information available.
Vapour density	: No information available.
Partition coefficient: n-octanol/water	: No information available.
Viscosity	: Not applicable.
Evaporation rate (BuAe = 1)	: No information available.
Particle characteristics	: Not applicable.

9.2 Other Information

Volatiles (% by weight)	: negligible
Volatile organic Compounds (VOC's)	: None.
Other physical/chemical comments	: No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	: Not normally reactive.
10.2 Chemical stability	: Stable under normal conditions.
10.3 Possibility of hazardous reactions	: Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

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10.4 Conditions to avoid : Keep away from extreme heat and flame. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

10.5 Incompatible materials

: Acids; Oxidizing agents

10.6 Hazardous decomposition products

: None known.

Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Metal oxides; Carbon oxides; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

Acute toxicity : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Skin corrosion/Irritation : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Serious eye damage/irritation

: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Respiratory or skin sensitisation

: Not expected to be a skin or respiratory sensitizer.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Germ cell mutagenicity : Contains no ingredient listed as a mutagen.

Carcinogenicity : Not classifiable as a human carcinogen.

Reproductive toxicity : Contains no ingredient listed as toxic to reproduction.

STOT-single exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

STOT-repeated exposure : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

Aspiration hazard : Not applicable in the product's present form.

Routes of exposure : Eye contact; Skin contact; Inhalation; Ingestion

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Effects of acute exposure : This product is considered to be an 'article' according to Regulation (EC) No. 1272/2008. Under normal conditions of use, users of the product cannot be exposed to its harmful contents. However, if the product is misused, the following health effects may occur:

Inhalation: Fumes from heated product may irritate respiratory tract. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

Skin contact: Direct skin contact may result in little or no irritation.

Eye contact: Causes little or no irritation.

Ingestion: If material is ingested, may cause irritation to mucous membranes. May cause nausea, vomiting and diarrhea.

Potential Chronic Health Effects

: None expected, when used as intended.

Information on other Hazards

: None known or reported by the manufacturer.

11.1.1 Acute Toxicity

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Nickel	> 2.55 mg/L (dust) (no deaths)	> 9000 mg/kg	N/Av

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties : None Known.

11.2.2 Other hazards : None Known.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity : As supplied, this product does not present a physical, health or environmental hazard. No data is available on the product itself. The product should not be allowed to enter drains, water courses or the soil. Contains: Copper. The acute toxicity of copper to aquatic species varies drastically by the chemical form and correlates with the availability of free ionic copper. Aquatic toxicity is highly variable not only by organism but with physical and chemical characteristics of the water itself.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC₅₀ / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Nickel	7440-02-0	15.3 mg/L (Rainbow trout)	N/Av	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Nickel	7440-02-0	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Nickel	7440-02-0	N/Av	N/Av	None.

12.2 Persistence and degradability

: Not expected to be rapidly biodegradable.

12.3 Bioaccumulation potential

: The product itself has not been tested.

12.4 Mobility in soil

: The product itself has not been tested.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

12.7 Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8 Additional information : Avoid release to the environment.


SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14. TRANSPORTATION INFORMATION

<i>Regulatory Information</i>	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	<i>Label</i>
ADR/RID	None.	not regulated	not regulated	none	

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EU ADR/RID Classification Code	Not applicable.				
EU ADR / RID Hazard Identification Number	Not applicable.				
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

14.5 Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

14.6 Special precautions for user

: Appropriate advice on safety must accompany the package.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended

Refer to restrictions found in REACH Annex XVII item 75. See Item 27.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances:

None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work:

None of the components are specifically listed.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2020/878].

Follow national regulation for work with chemical agents.

German legislation on water endangering substances AWSV: Water contaminating class (Germany): No information available.

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend	: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road CAS: Chemical Abstract Services CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures EC: European Community EC50: Effective Concentration 50% ECHA: European Chemicals Agency EEC: European Economic Community EN: European Standard EU: European Union IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods LC: Lethal Concentration LD: Lethal Dose NOEC: No observable effect concentration OECD: Organisation for Economic Co-operation and Development OEL: National occupational exposure limits PEL: Permissible exposure limit RID: Regulations concerning the International Carriage of Dangerous Goods by Rail RTECS: Registry of Toxic Effects of Chemical Substances SDS: Safety Data Sheet STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit
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Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCHInfoWeb Databases
3. European Chemicals Agency, Classification Legislation
4. OECD - The Global Portal to Information on Chemical Substances

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Regulation and Procedure :

Not applicable.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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<p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

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