

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: ThermaBrick® Refrigerant Bricks (PCM+5A)
EC number	: Not available.
CAS number	: Not available.
Product code	: PCM+5A
Product description	: For professional use only.
Product type	: Not classified - Temprecision International considers this product an article. "Article" means a manufactured item other than a fluid or particle (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.
Other means of identification	 No exposure to hazardous chemicals is expected to occur during intended product use. Do not puncture, tear, or rupture package. Article is not intended to be removed from packaging. Misuse of this article may result in exposure to hazardous chemicals. Safe transport of blood, therapeutic drugs, vaccines and chemicals. For professional use only.

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

Identified uses Not applicable.

Uses advised against Not applicable.

1.3 Details of the supplier of the safety data sheet

Temprecision International Smithers-Oasis U.K. Limited 17/18 Tilley Road Crowther Industrial Estate Washington, Tyne & Wear NE38 0AE ENGLAND customerservicetcp@temprecision.com (44) 1 91 417 5595

e-mail address of person : USCustserv@Temprecision.com responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number: Call NHS in the UK on 111

SECTION 2: Hazards identification

2.1 Classification of the s	ubstance or mixture
Product definition	 Not classified - Temprecision International considers this product an article. "Article" means a manufactured item other than a fluid or particle (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees. No exposure to hazardous chemicals is expected to occur during intended product use. Do not puncture, tear, or rupture package. Article is not intended to be removed from packaging. Misuse of this article may result in exposure to hazardous chemicals. Classification information shown below is related to the substance contained in the Article.

Classification according to UK CLP/GHS

Asp. Tox. 1, H304

Zassification information shown below is related to the substance contained in the Article.

See Section 16 for the full text of the H statements declared above.

1

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word	:	Danger							
Hazard statements	:	May be fata	l if swallowe	ed and ente	rs airways				
Precautionary statements									
Prevention	:	Not applica	ble.						
Response	:	IF SWALLC vomiting.	WED: Imme	ediately cal	l a POISO	N CENTER or	doctor. Do	NOT indu	ICE
Storage	:	Not applica	ble.						
Disposal	:	•	contents and I regulations		in accorda	ance with all lo	cal, regiona	l, national	and
Supplemental label elements	:	Not applica	ble.						
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applica	ble.						
Special packaging requirem	ent	ts							
Containers to be fitted with child-resistant fastenings	:	Not applica	ble.						
Tactile warning of danger	:	Not applica	ble.						
2.3 Other hazards									
Product meets the criteria	:	PBT	Р	В	Т	vPvB	vP	vB	
for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		No	N/A	N/A	No	N/A	N/A	N/A	
Other hazards which do not result in classification	:	None know	n.			I			
Date of issue/Date of revision		: 1/25/2023	Date of prev	vious issue	: 1/2	5/2023	Version	: 0.03	2/12

SECTION 3: Composition/information on ingredients

.1 Substances :	Not classified - Temprecision Int "Article" means a manufactured it to a specific shape or design durin dependent in whole or in part upo under normal conditions of use do minute or trace amounts of a haz hazard or health risk to employee No exposure to hazardous chemic use. Do not puncture, tear, or rup from packaging. Misuse of this art Classification information shown b Article.	tem other than a flu ng manufacture; (ii on its shape or desi oes not release mo ardous chemical, a es. cals is expected to oture package. Arti- ticle may result in e	uid or particle (i) which is) which has end use fund gn during end use; and (ore than very small quan and does not pose a phy occur during intended p cle is not intended to be exposure to hazardous c	formed ction(s) (iii) which tities, e.g., sical roduct removed hemicals.
Product/ingradiant name	Idontifiors	0/_	Classification	Type

Product/ingredient name	Identifiers	%	Classification	Туре
Tetradecane	EC: 211-096-0 CAS: 629-59-4	99	Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Chronic 4, H413 EUH066	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

in Decemption of mot ala me	
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

Date of issue/Date of revision	: 1/25/2023	Date of previous issue	: 1/25/2023	Version : 0.03 3/12
--------------------------------	-------------	------------------------	-------------	---------------------

SECTION 4: First aid measures

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following: nausea or vomiting

4.3 Indication of any imme	ediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	se an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	one known.	
5.2 Special hazards arising f	e substance or mixture	
Hazards from the substance or mixture	o specific fire or explosion hazard.	
Hazardous combustion products	ecomposition products may include the following materials: arbon dioxide arbon monoxide	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	romptly isolate the scene by removing all persons from the vicinity of the ir lere is a fire. No action shall be taken involving any personal risk or withou aining.	
Special protective equipment for fire-fighters	ire-fighters should wear appropriate protective equipment and self-contain reathing apparatus (SCBA) with a full face-piece operated in positive press	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	r c	ontainment and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal

contractor.

SECTION 6: Accidental release measures

Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7 4 Due e e utile de la centre la centralita d

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe hai	ndling
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring	:	Reference should be made to appropriate monitoring standards. Reference to
procedures		national guidance documents for methods for the determination of hazardous
		substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls: Good ger contamin	eral ventilation should be sufficient to control worker exposure to airborne ants.
---	--

SECTION 8: Exposure controls/personal protection

Individual protection measu		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.	
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated	١.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.	
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	t

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid. [Plastic foam cut to a specific shape encased with a liquid in a sealed plastic film.]
Color	: Pink
Odor	: Odorless.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not applicable.
Flash point	: Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	: Not available.
рН	: Not available.
Viscosity	: Not applicable.
Solubility in water	: Not available.
Date of issue/Date of revision	: 1/25/2023 Date of previous issue : 1/25/2023 Version : 0.03 6/

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ water	:	Not applicable.
Vapor pressure	:	Not available.
Relative density	:	1.178
Vapor density	:	Not applicable.
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.
Particle characteristics		
Median particle size	:	Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity		
Conclusion/Summary	:	Not available.
Acute toxicity estimates		

N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tetradecane	Skin - Mild irritant	Pig	-	24 hours 300	-
				uL	
	Skin - Moderate irritant	Pig	-	96 hours 1200 uL I	-
	Skin - Moderate irritant	Rabbit	-	24 hours	-
		Rubbit		0.05 MI	
	Skin - Severe irritant	Rat	-	96 hours 300	-
				uL	
Conclusion/Summary	Not available.	·			
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				

Date of issue/Date of revision

SECTION 11: Toxicological information

Teratogenicity Conclusion/Summary : Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Product/ingredient name Result Tetradecane **ASPIRATION HAZARD - Category 1** Information on the likely : Not available. routes of exposure Potential acute health effects : No known significant effects or critical hazards. Eve contact Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : May be fatal if swallowed and enters airways. Indestion Symptoms related to the physical, chemical and toxicological characteristics : No specific data. Eve contact Inhalation : No specific data. Skin contact : No specific data. : Adverse symptoms may include the following: Ingestion nausea or vomiting Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects : Not available. Potential delayed effects Long term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Potential chronic health effects Not available. Conclusion/Summary : Not available. General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards. Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Tetradecane	8.11	-	high

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
ThermaBrick® Refrigerant Bricks (PCM+5A)	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ThermaBrick® Refrigerant Bricks (PCM+5A)
-----------------------------------	---------

SECTION 14: Transport information				
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk: Not available.according to IMOinstruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed (integrated pollution prevention and control) -Air

SECTION 15: Regulatory information

Industrial emissions : Not listed (integrated pollution prevention and control) -Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Asp. Tox. 1, H304	Regulatory data

Full text of abbreviated H statements

Date of issue/Date of revision

: 1/25/2023

SECTION 16: Other information

H304	May be fatal if swallowed and enters airways.
H304 H319	Causes serious eye irritation.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Aquatic Chronic 4 Asp. Tox. 1 Eye Irrit. 2	AQUATIC HAZARD (LONG-TERM) - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Date of printing	: 1/25/2023
Date of issue/ Date of revision	: 1/25/2023
Date of previous issue	e : 1/25/2023
Version	: 0.03
Notice to reader	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.