

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

### 1. Product identifier

|                            |  |
|----------------------------|--|
| Product name               | ThermaCote®  |
| Chemical family            | Ceramic and Acrylic insulating coating   |
| Chemical formula           | Not applicable   |
| Trade name                 | ThermaCote®  |
| CAS number                 | Not applicable   |
| EINECS number              | Not applicable   |
| Annex I index numbers      | Not applicable   |
| REACH Registration numbers | Not applicable   |
| Description:               | ThermaCote® is a single component spray applied thermal barrier coating encompassed of ceramics and acrylics (water based) |

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

#### 1.2.1 Relevant identified uses of the mixture

Thermal barrier coating applied on new or retrofit constructions. This product enhances the performance of insulation.

#### 1.2.2 Uses advised against

This product is not recommended for other use, except from the mentioned above

### 1.3 Details of the supplier of the safety data sheet

ThermaCote, Inc  
1369 Herrington Rd.  
Lawrenceville, GA 30044 USA  
Company number Tel: 770-458-6877  
Office hours : 9.00-18.00h (UTC/GMT -4 hour)

Responsible person in EU: Pavlos Keramidas  
Company number Tel: +306940724729  
Contact hours : 9.00-18.00h (GMT+2 hour)  
Email: [pk@thermacote.gr](mailto:pk@thermacote.gr)

### 1.4 Emergency telephone number

Company number Tel: 770-458-6877  
EU - Company number Tel: +306940724729

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the mixture

**2.1.1 Classification of the mixture according to Regulation (EC) No. 1272/2008 (CLP/GHS):** The mixture is classified as Aquatic Chronic 3; H412

**2.1.2 Classification of the mixture according to Directive No. 67/548/EEC (DSD) and 1999/45/EC (DPD):** The mixture is classified R52-53

### 2.2 Label elements

Not applicable

**2.2.1 Labelling according to Regulation (EC) No. 1272/2008 (CLP/GHS)**

**Signal Word:** Not applicable

**GHS pictogramms:** Not applicable

**Hazard Statements:** H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements:**

P273 Avoid release to the environment.

P501 Dispose of contents /container to special waste collection points, in accordance with the regional / national legislative framework.

**2.2.2 Labelling according to EC-Directives 67/548/EEC (DPD) or 1999/45/EC (DSD), as amended**

Not applicable

**Risk Phrases:**

R52-53 Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment

**Safety Phrases:**

S61 Avoid release to the environment. Refer to special instructions/safety data sheet

**2.3 Other hazards:**

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Mixture**

| Ingredient   | EC number | CAS number | Pre-Registration number | % w/w   | Classification (DSD) | Classification (CLP)  |
|--|-----------|------------|-------------------------|---------|----------------------|---|
| Zinc Oxide   | 215-222-5 | 1314-13-2  | 17-2120047968-39-0000   | 0.5-0.7 | N; R50-53            | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410              |
| Aqua ammonia   | 215-647-6 | 1336-26-1  | 17-2120047983-47-0000   | ≤0.20   | C; R34<br>N; R50     | Skin Corr. 1B; H314<br>Aquatic Acute 1; H400                  |
| Solvent naphta (petroleum), medium aliphatic Petroleum Distillates | 265-191-7 | 64742-88-7 | 17-2120047988-37-0000   | ≤0.20   | Xn; R65              | Asp. Tox. 1; H304<br>STOT RE 1; H372 (central nervous system) |

The product contains non-hazardous impurities up to 0.1% w/w. These impurities are not relevant for classification and labeling.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**Following inhalation:** If breathing is difficult, supply the fresh air or give oxygen. If symptoms persist, get medical attention.

**Following skin contact:** Rinse thoroughly with soap and water.

**Following eye contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion:** Drink 1 or 2 glasses of water. Do not induce vomiting. Never give anything by amount to an unconscious person.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** None known

### 4.3 Indication of any immediate medical attention and special treatment needed

**Treatment** No special treatment required known

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

The product is **not flammable**; therefore in case of large fires use extinguishing media according to the compatibility to the other surrounding materials such as water spray, fog or alcohol foam.

#### 5.1.2 Unsuitable extinguishing media

None known

### 5.2 Special hazards arising from the substance or mixture

No available data

### 5.3 Advice for fire fighters

#### Special protective equipment for firefighting.

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Surfaces may become slippery after spillage. Isolate spill or leak area immediately. Keep unauthorized personal away.

### 6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and materials for containment and cleaning up

Contain small spills using sand, earth or other absorbent media and transfer to containers for later disposal. For large spills dike ahead of liquid spill for later disposal.

### 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wash thoroughly after handling. As with all chemical products, good industrial hygiene practices should be followed when handling this material.

Maximum Surface Application Temperature 149° C.

**7.1.1 Protective measures**

**7.2 Conditions for safe storage, including any incompatibilities**

Avoid storing near strong oxidisers or acids. Avoid prolonged exposure to direct sunlight with containers prior to use. Avoid freezing and extreme heat.

**7.3 Specific end use(s)**

No special measures necessary provided that product is used correctly.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control parameters**

**Engineering Controls**

Provide local and general exhaust ventilation to effectively remove and prevent builduo of any vapors or mists generated from the handling of this product. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower. Use adequate or general local exhaust ventilation if airborne dust concentrations exceed 10mg /m<sup>3</sup>.

**Occupational Exposure limits**

The following sources of information on Occupational Exposure Limits from Member States are the websites:

**Source:** [http://www.dguv.de/ifa/en/gestis/limit\\_values/index.jsp](http://www.dguv.de/ifa/en/gestis/limit_values/index.jsp)

| Area/Country   | Limit value - Eight hours |                   | Limit value - Short term |                   |
|----------------|---------------------------|-------------------|--------------------------|-------------------|
|                | ppm                       | mg/m <sup>3</sup> | ppm                      | mg/m <sup>3</sup> |
| Austria        | 20                        | 14                | 50                       | 36                |
| USA - NIOSH    | 25                        | 18                | 35 (*)                   | 27 (*)            |
| USA - OSHA     | 50                        | 35                | -                        | -                 |
| European Union | <b>20</b>                 | <b>14</b>         | <b>50</b>                | <b>36</b>         |
| France         | <b>10</b>                 | <b>7</b>          | <b>20</b>                | <b>14</b>         |
| Germany (AGS)  | 20                        | 14                | 40 (*)                   | 28 (*)            |
| Germany (DFG)  | 20                        | 14                | 40                       | 28                |

Germany (AGS) (\*): 15 minutes average value, insoluble particulates

Germany (DFG) (\*): long term exposure level, insoluble particulates

USA – NIOSH (\*): 15 minutes average value

**8.2 Exposure controls**

**8.2.1 General protective measures**

Observe the usual precautions for handling chemicals.

**8.2.2 Personal Protective Equipment**

- **General:** Eye wash fountain and emergency showers are recommended
- **Eye/Face Protection:** Wear chemical goggles; face shield (if splashing is possible).
- **Skin Protection:** Wear suitable protective clothing.
- **Respiratory Protection:** Under normal conditions, respiratory is not normally required. If vapors are present or irritation is experienced, suitable respiratory protection for organic vapors should be worn.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

| Property                            | Value  |
|-------------------------------------|--|
| Physical state at 20°C and 101.3kPa | Creamy: Liquid<br>Colour: Bone White<br>Appearance: Viscous solution of ceramic and acrylic<br>Odor: Slight ammonia odor |
| Particle size                       | Not applicable. The substance / product is handled or used in a non solid or granular form.                              |
| Boiling point                       | 212° F   |

|                          |                 |
|--------------------------|-----------------|
| Specific Gravity         | 0.622           |
| Total Volatile Matter    | 45.26%          |
| Volatile Organic Content | 5.3 g/L         |
| Flash point              | Non combustible |
| Vapour pressure          | 20 at 25° C     |
| Vapour Density           | <1              |
| Viscosity                | 2.000-10.000cps |
| Evaporation Rate         | <1              |
| Solubility in water      | Soluble         |
| pH                       | 8.45-9.50       |

**9.2 Other information**

Not available

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

No available data

**10.2 Chemical stability**

The product is stable if it is stored and handled as prescribed / indicated.

**10.3 Possibility of hazardous reactions**

No hazardous reactions if it is stored and handled as prescribed / indicated.

**10.4 Conditions to avoid**

Avoid extreme heat. Do not allow freeze

**10.5 Incompatible materials**

Metal salts, hydrofluoric acid, strong oxidisers.  
 This product may react with strong oxidizing agents,

**10.6 Hazardous decomposition products**

Decomposition of this product may yield carbon dioxide, carbon monoxide and hydrocarbons. May react with hydrofluoric acid to form a toxic gas.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

Non- testing the product for the information on toxicological effects. The information comes from the SDS of the raw material

| <b>Toxicity endpoints</b> | <b>Description of effects</b>   |
|---------------------------|---|
| Aspiration Hazard         | No available data   |
| Acute toxicity            | <b>ORAL:</b> LD50 (RAT) >2,000 mg/kg  |
| Irritation/corrosion      | <b>Skin Irritation:</b> Not available<br><b>Eye Irritation:</b> Not available |
| Sensitization             | No available data   |
| Repeated dose toxicity    | No available data   |
| Mutagenicity              | No available data   |
| Carcinogenicity           | Not listed as carcinogenic according to IARC, NTP or OSHA                     |
| Reproductive toxicity     | No available data   |
| Teratogenicity:           | No available data   |

**11.2 Other Information:** Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**SECTION 12: ECOLOGICAL INFORMATION**

- 12.1 **Toxicity:** No data available
- 12.2 **Persistence and degradability:** No data available
- 12.3 **Bioaccumulative potential:** No data available
- 12.4 **Mobility in soil:** No data available
- 12.5 **Results of PBT and vPvB assessment:** No data available
- 12.6 **Other adverse effects:** No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

- 13.1. Waste treatment methods**  
 Treatment disposal must be in accordance with applicable Federal, State/Provincial and Local Regulations. Regulations may vary in different locations
- 13.2. Recommendations**  
 Do not discharge into drains, surface waters or groundwaters. Characterization and compliance with applicable laws are the responsibility of the generator.

**SECTION 14: TRANSPORT INFORMATION**

- Land Transport (ADR-RID): Not Regulated.
- Inland Waterway Transport (ADN): Not Regulated.
- Marine Transport (IMDG Code): Not Regulated.
- Shipping Classification for this product is Class55
- Air Transport (ICAO - IATA): Not Regulated.
- U.S. Dept. of Transportation Regulations: Not Regulated.
- Canadian Transportation of Dangerous Goods Act: Not Regulated.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)** No data available

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the product:**

**Federal Regulations**

- **Registration Status:** TSCA, US realised/listed
- **OSHA hazard category:** Not hazardous
- **SARA hazard categories (EPCRA 311/312):** Not hazardous

**15.1.2 Other regulatory information**

State Regulations  
 State RTK

The following materials are non-hazardous, but are included in this product.

| CAS Number | Chemical Name  | State RTK  |
|------------|----------------|------------|
|            | NJTS-50078-NCD | NJ, PA, MA |

**15.2. Chemical safety assessment**

Chemical Safety Assessments (CSAs) is not available for the product.

**SECTION 16: OTHER INFORMATION****16.1 Indication of changes**

Because of major changes, this SDS is completely new. This version of the safety data sheet for the product (Version 1, date 20.11.2013) has been revised in accordance with Regulations 1907/2006, 1272/2008 and 453/2010, in order to include the latest information on mixture and components.

**16.2 Abbreviations used:** on request via your supplier

AND European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road  
AOX Adsorbable organic bound halogens  
CAS Chemical Abstracts Service  
DMEL Derived Minimal Effect Level (genotoxic substances)  
DNEL Derived No Effect Level  
EC50 Half maximal effective concentration  
GHS Globally Harmonized System  
IATA International Air Transport Association  
IMDG International Maritime Dangerous Goods  
LC50 Lethal Concentration 50%  
LD50 Lethal Dose 50%  
MARPOL International Convention for the Prevention of Pollution From Ships  
NOAEC No Observed Adverse Effect Concentration  
NOAEL No Observed Adverse Effect Level  
NOEC Non Observed Effect Concentration  
OEL Occupational Exposure Limit  
PBT Persistent, Bioaccumulative, Toxic  
PEC Predicted Environmental Concentration  
PNEC Predicted No Effect Concentration  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID International Rule for Transport of Dangerous Substances by Railway  
SVHC Substances of Very High Concern  
vPvB very Persistent and very Bioaccumulative

**16.3 Key literature references and sources of data**

Not available data

**16.4 Procedure used to derive the classification for the mixture according to art.9 of Regulation 1272/2008 (CLP)**

Not available data

**16.5 Text of the R-phrases assigned to the ingredients/components mentioned in section 3 :**

Not available data

**16.6 Training advice for personnel**

No special training is required of the personnel working with the material.

## Disclaimer:

- This Safety Data Sheet (SDS) is prepared with our best knowledge and with our best faith. It is based on information that was provided to our company via the suppliers analytical information of the product. The information in this SDS will be updated as soon as new information is available; Thermacote provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Furthermore, this safety data sheet (including its Annex) is made up based on the legal requirements as set by EC 1907/2006 (REACH) based on information as is available per June 06, 2014. Further information received following the time scale as foreseen by REACH and the guidance policies as described in the REACH Implementation