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# THERMO-METALS

## ANTI-CORROSIVE, WATER-BASED, ACRYLIC ENAMEL

Revision nr. 1  
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## MSDS (Material Safety Data Sheet)

### 1. Identification Of The Mixture And Of The Company

<b>Trade Name:</b>	THERMO-METALS: ANTI-CORROSIVE, WATER-BASED, ACRYLIC ENAMEL, WITH THERMO-INSULATING AND HEAT REFLECTIVE PROPERTIES
<b>Company:</b>	Barozzi Vernici S.r.l. Via G. Di Vittorio, 12, 46036 Revere (MN) - ITALY <a href="http://www.barozzivernici.it">www.barozzivernici.it</a> marcella@barozzivernici.it
<b>Service:</b>	Tel.: +39 0386/46327 Fax: +39 0386/46328
<b>Emergency Phone Numbers:</b>	Tel.: +39 0386/46327

### 2. Hazards Identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

### 3. Composition and Information On Ingredients

<b>Chemical Characterization:</b>	Acrylic enamel with nanostructured compounds and thermo-insulating nanoparticles
<b>Dangerous Ingredients:</b>	No dangerous ingredients are contained.

### 4. First Aid Measures

<b>On contact with eyes:</b>	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
<b>On contact with skin:</b>	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
<b>If inhaled:</b>	Remove to fresh air. Keep person warm and at rest. If not breathing, or breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

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**If ingested:** If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

## 5. Fire-Fighting Measures

<b>Suitable extinguishing media:</b>	Alcohol-resistant foam, CO <sub>2</sub> , powders, water spray.
<b>Unsuitable extinguishing media:</b>	Water jet
<b>Hazards during fire fighting:</b>	None known.
<b>Special protective equipment or/and procedures:</b>	A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after the fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.
<b>Hazardous Combustion Products:</b>	Silica. Carbon oxides and traces of incompletely burned carbon compounds.
<b>Recommendations:</b>	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways

## 6. Accidental Release Measures

<b>Personal precautions:</b>	Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
<b>Precautions to protect the environment:</b>	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
<b>Methods for cleaning up:</b>	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## 7. Handling and Appropriate Storage

<b>Advice on safe handling:</b>	Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapor, spray or mist. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protective equipment (see section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.
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Comply with the health and safety at work laws.

**Advice on storage:**

Store in accordance to local regulations. Must be stored in a dry location. Keep container in a well-ventilated place. Keep away from: oxidizing agents, strong alkalis, strong acids.

No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains

**Unsuitable packaging materials:**

None known.

## 8. Exposure Controls and Personal Protection

**Engineering Controls:**

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

**Exposure Controls to Hazardous Components:**

Not available.

**Personal Protection Equipment:**

**Respiratory Protection:**

Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded. A suitable respirator must be worn if the product is used in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities.

**Hand Protection:**

For prolonged or repeated handling, use gloves: nitrile. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Eye Protection:**

Use safety eyewear designed to protect against splash of liquids.

**Skin Protection:**

Wear impervious overalls in circumstances where significant skin contact can occur.

**Hygiene Measures:**

Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

**Environmental Exposure Controls:**

Do not allow to enter drains or watercourses.

**Additional Recommendations:**

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

## 9. Physical and Chemical Properties

**Physical Condition:**

Liquid.

**Colour:**

White.

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<b>Odour:</b>	Slight.
<b>pH:</b>	9,5
<b>Boiling Point:</b>	100 °C
<b>Flash Point:</b>	100 °C (closed cup).
<b>Auto-ignition Temperature:</b>	>100 °C
<b>Specific Gravity:</b>	1,10/1,20 kg/lit +/- 0,03 a 20°C
<b>Viscosity:</b>	8.500 cps +/- 1.000 a 20° C
<b>Oxidizing Properties:</b>	None.

## 10. Stability and Chemical Reactivity

<b>Stability:</b>	Stable under normal usage conditions.
<b>Conditions to avoid:</b>	None established.
<b>Materials to avoid:</b>	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
<b>Hazardous decomposition products:</b>	Carbon monoxide, carbon dioxide, smoke, oxides of nitrogen

## 11. Toxicological Information

<b>On contact with eyes:</b>	Slightly irritating.
<b>On contact with skin:</b>	Can irritate on prolonged or repeated contact.
<b>If inhaled:</b>	No adverse effects are normally expected.
<b>If ingested:</b>	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

## 12. Ecological Information

<b>Environmental fate and distribution:</b>	There is no data available on the preparation itself. Do not allow to enter drains or watercourses. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.
<b>Eco-toxicity effects:</b>	No adverse effects on aquatic organisms are predicted.
<b>Bio-accumulation:</b>	No bioaccumulation potential.
<b>Effects on water treatment plants:</b>	No adverse effects on bacteria are predicted.

## 13. Disposal Potential

<b>Product Disposal:</b>	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations.
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Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

**Packaging Disposal:**

Packaging can be recycled. Dispose in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

#### 14. Transportation Information

**Road/Rail transportation (ADR/RID):** No subject to ADR/RID

**Sea Transportation (IMDG):** No subject IMDG

**Air Transportation (IATA):** No subject IATA

This preparation is not classified as dangerous according to International transport regulations (ADR/RID, IMDG or ICAO/IATA)

#### 15. Regulatory Information

This preparation is not classified as dangerous according to the EC Directive 88/379/EEC.

The authorship of Safety Data Sheet has been made according to Directive 453/2010/EC.

**Ozone depleting chemicals:** The product does not contain ozone depleting chemicals. No ozone depleting chemicals were used during the production phase of this product.

**Chemical Safety Assessment:** Not available

#### 16. Other Information

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. BAROZZI VERNICI S.r.l. shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge. As stated above, this SDS has been prepared in compliance with applicable European law. Please note that the appearance and content of the SDS may vary, even for the same product, between different countries, reflecting the different compliance requirements. Should you have any question, please refer to BAROZZI VERNICI S.r.l..

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