

Thermo Interior Emulsion**1. Identification of the substance/preparation and of the company/undertaking****Trade name**

Thermo Interior Emulsion

Use of preparation

White emulsion paint with thermal insulating properties for internal use

Company/undertaking identification

Nutshell Natural Paints Ltd

3 Leigham Units

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2. Composition/information on ingredients

Chemical characterisation: Microstructured emulsion of glass bubbles for thermal insulation of paints. Contains nanostructured emulsion of silicon and titania based molecules for waterproofing.

Dangerous ingredients: Glass oxide. CAS no. 65997-17-3. Conc %w/w: < 25%

3. Hazards identification

The principal hazards of the product – Exposure to dried glass bubbles may be irritating to eyes, nose and throat. Dust or powder generated when drying the formulation may be irritating to the eyes, skin, respiratory system and gastrointestinal tract. Rubbing of the eyes may cause abrasion of the cornea. Symptoms can include irritation, redness, scratching of the cornea and tearing.

4. First aid measures**In case of inhalation:**

Move affected person into fresh air, keeping them warm. If you feel unwell seek medical advice showing the label where possible.

In case of skin contact:

Remove contaminated clothing and shoes. After contact with skin, wash with soap and plenty of water. If you feel unwell seek medical advice showing the label where possible.

In case of eye contact:

Rinse immediately with plenty of water and seek medical advice.

In case of ingestion:

Do not induce vomiting. Unless unconscious, drink two glasses of water. Seek medical advice showing the label where possible.

5. Fire-fighting measures

Extinguishing media: Non combustible. Carbon Dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.

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.

Hazardous Combustion Products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Nitrogen products.

6. Accidental release measures

Personal precautions: Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

Precautions to protect the environment: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Methods for cleaning up: Determine to need to evacuate or isolate the area according to your local emergency plan. Very large spills should be contained by banding etc. Mop, wipe or soak up with absorbent material and place in a container with a lid. The spilled product produces an extremely slippery surface.

If the product contaminates lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

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7. Handling and Storage

Handling

Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapour, 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.

Comply with the health and safety at work laws.

Storage

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

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

8. Exposure controls / Personal protection

Engineering controls: Ventilation, refer to section 7 (Handling and appropriate storage) Exposure controls to Hazardous components: 1000 ppm TWA as ethanol (ACGIH) 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: Chemical protective gloves should be worn. Eye Protection: Safety goggles should be worn. 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: Refer to sections 6 and 12. 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

General information:

Physical state: liquid

Colour: white

Odour: slight

pH: 9 (basic)

Boiling point: 100 C

Flash point: 100 C (closed cup)

Explosion danger: None

10. Stability and Reactivity

Stable under recommended storage and handling conditions. (see section 7)

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions.: oxidising agents, strong alkalis and strong acids.

If this product is heated to temperatures greater than 150 C, trace quantities of formaldehyde may be released, and adequate ventilation is required.

11. Toxicological information

On Contact with eyes: Exposure to dried bubbles may be irritating to eyes, nose and throat. Dust or powder generated when drying the formulation may be irritating to the eyes, skin, respiratory system and gastro-intestinal tract. Rubbing of the eyes may cause abrasion of the cornea. Symptoms can include irritation, redness, scratching of the cornea and tearing. On contract with skin: Exposure to dried bubbles may be irritating to eyes, nose and throat. Dust or powder generated when drying the formulation may be irritating to the eyes, skin, respiratory system and gastro-intestinal tract. Rubbing of the eyes may cause abrasion of the cornea. Symptoms can include irritation, redness, scratching of the cornea and tearing. If Inhaled or If Ingested – same as above.

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12. Ecological information

Environmental fate and distribution: This product hydrolyses in water or moist air, releasing alcohols and silicon dioxide. Eco-Toxicity effects: No adverse effects on aquatic organisms are predicted. Bio-accumulation: No bioaccumulation potential. Effects on water treatment plants: No adverse effects on bacteria are predicted.

13. Disposal considerations

Do not allow to enter drains or watercourses.
Dispose of according to all local regulations.

14. Transport information

Land transport (ADR/RID):

UN-No.:

Class:

Classification code:

Packing group:

Hazard label:

Official transport designation:

Marine transport (IMDG):

Packing Group:

Proper Shipping Name:

Marine pollutant: No

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI / IATA-DGR):

Class or Division:

UN/ID-Nr.:

Packing Group:

Proper Shipping Name:

15. Regulatory information

EEC Labelling: S-Phrases

S51: Use only in well ventilated areas

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S39: Wear eye/face protection

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28: After contact with skin, wash immediately with plenty of water and soap

National Regulations

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

16. Other information

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This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations. **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 into contact with the product.** All information and instructions provided in the Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS. Nutshell Natural Paints Ltd shall not be held responsible for any defect in the product covered by the MSDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge. As stated above, this MSDS has been prepared in compliance with applicable European law.