



MATERIAL SAFETY DATA SHEET

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1. Identification of Substance.

Trade name: Insuladd / Thermilate

Manufacturer / Supplier: Thermilate Europe Ltd, 7 Northumberland Street, Huddersfield, HD1 1RL.

Telephone: UK 08707 441 759: International +44 (0) 8707 441 759: USA 001 561 231 5233

2. Composition and data on components.

TSCA registry Numbers This product is a mixture under TSCA : Ceramic Composite Spheres

Identification Numbers: CAS # 13350-30-4
CAS # 1302-93-8

3. Hazard identification.

Non Flammable

Not listed as a Toxic Chemical under SARA

No Known Chronic Hazards

Health

Eye Contact: Causes irritation

Skin Contact: May cause dehydration and irritation

Symptoms:-

Eye Contact: Redness and Tearing

Skin Contact: Dryness, itching or burning

Inhalation: Sneezing and dryness of mucus membranes

4. First Aid.

Inhalation: - Move to area free from risk of further exposure to area with fresh air. Administer oxygen or artificial respiration, if needed. Get medical attention.

Eye Contact: Flush with tepid water for at least 15 minutes keeping eyes open. Seek medical attention if irritation develops.

Skin Contact: wash affected area with soap and water. Seek medical attention if irritation develops.

Ingestion: Not likely route of exposure. If large amounts of product are ingested, give 2 glasses of water and get prompt medical attention. Never give anything by mouth to an unconscious person.

5. Fire fighting measures and explosion Hazards.

Flash point and Method: Non combustible

Flammable limits: LEL: NA UEL: NA

Special fire fighting procedures: None

Extinguishing media: Will not burn, select fire fighting media and or fire extinguishers that are appropriate for fighting the surrounding fire.

Special Fire fighting Procedures: Use NIOSH approved self-contained breathing apparatus with full face operated in pressure demand or positive pressure mode. Wear full fire fighting protective clothing.

Unusual fire fighting and explosion hazards: Not an explosion hazard

6. Accidental Release Measure.

Secure Area;

Obtain and wear necessary personal protective clothing.

Obtain necessary equipment. Scoop up material and place in appropriate containers for reuse or disposal.

Do not allow material to enter sewers or waterways.

Wet mopping or vacuuming to clean up small amounts.

EPA RCRA ID Number: N/A

Dispose according to item 13

7. Handling and storage.

Precautions to be taken in handling and storing:

Keep containers closed. Store in a cool dry place. Any dust generated during handling or processing should be removed by sweeping, vacuuming and wet mopping. Avoid breathing dust.

8. Exposure Controls and personal Protection.

Personal protective equipment should be worn.

Respiratory: Use NIOSH – certified dust respirator where dust occurs. Observe OSHA regulations for respirator use. (29 CFR 1910.134) The evaluation need for a respiratory protection should be determined by a professional hygienist.

Eye Protection: Safety glasses are recommended.

Protective Gloves: Cotton gloves are usually sufficient to protect hands from irritation from handling this product. Wear Polymer gloves if prolonged exposure to the powder is expected.

Personal Hygiene: Avoid breathing dust, Wash thoroughly after handling.

Ventilation: If dust is generated during processing or use, local Exhaust should be provided to reduce exposure. The need for exhaust system should be evaluated by a professional industrial hygienist. Local exhaust systems should be designed by a professional engineer. OSHA permissible exposure limit or ACGIH threshold limit value have not been established. Recommended ceiling limit 5mg/m³.

Engineering Control: Use adequate ventilation.

All chemicals should be handled so as to prevent eye contact and excessive repeated skin contact. Appropriate eye and skin protection should be employed. Inhalation of dust and vapours should be avoided. Proper Personal protective equipment selection should follow recommendations provided in the hazard analysis done for the task involved, or as determined by a professional industrial hygienist.

9. Physical and chemical properties.

Appearance: Inert Solid dry powder

Colour: White

Odour: None

Melting Point: 1800

Boiling point: NA

Vapour density (Air=1): NA

Vapour pressure: NA

Solubility In water: Negligible

Bulk Density: 0.4gcc

% Volatile by volume: 0

PH: NA

10. Stability and reactivity.

Conditions causing instability: Stable Non Known.

Incompatibility (materials to avoid): None Known

Hazardous Decomposition products: may include oxides of aluminium at high temperatures.

Special Sensitivity: None Known

11. Toxicological Information.

Chronic hazards: No known chronic Hazards, not listed by OSHA, NTP or IARC as a carcinogen

Acute toxicity:

Effects of overexposure: No known health hazards.

LD50 Oral (Ingestion): No applicable information found.

LD50 Dermal (skin contact): No applicable Information found.

LD50 Inhalation. : No Applicable Information found.

Primary Route of exposure: Inhalation.

Acute: High dust concentrations may cause mechanical eye irritation and upper respiratory irritation. Prolonged skin contact with dust may result in dryness.

Medical Conditions aggravated by exposure: Asthma and lung disease.

Chronic: Exposure to dusts may cause Pneumoconiosis

12. Ecological Information.

Environmental Hazard: None Known

Not listed as a Toxic chemical under SARA title III, #302, #304, # 313

13. Disposal Considerations.

Disposal in a landfill in accordance with applicable local, state, country, federal law and regulations.

This material if discarded is not defined as hazardous. Not an RCRA hazardous waste.

14. Transport Information.

DOT Regulations

DOT Hazard Class: Not Applicable

DOT Shipping Name: Not Applicable

15. Regulations

SARA Title III, this product contains the following reportable substances: None

OSHA Hazard communication categories: irritant, eye hazard and lung hazard

SARA: Fire – No: **pressure:** No

No DOT labels are required, No DOT Hazard number has been assigned, and no DOT shipping restrictions apply.

This product is a mixture under TSCA list.

16.

This information should be used as a supplement to other information obtained to make independent judgement of suitability and to ensure proper use and protect the health and safety of employees.

Judgements as to the suitability of the information herein for the purchaser's purposes are necessarily purchaser's responsibility. Therefore although reasonable care has been taken in the preparation of such information. Thermilate extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchasers intended purpose or for consequences of its use.