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Chemicals & Equipment
Industrial
Swimming Pool
Mining
Water Treatment

Cromag Pty Ltd ABN 13 008 935 760
ACN 008 935 760 trading as Telford Industries

MATERIAL SAFETY DATA SHEET

NON-HAZARDOUS SUBSTANCE ACCORDING TO WORKSAFE AUSTRALIA

1. IDENTIFICATION

Product Name: Zelbrite Ultimate Filter Media

Other Names: Synthetic Zeolite Na type A (cube structured); Sodium Aluminosilicate hydrate

Recommended Uses: Laundry and dish washing detergent formulations. PVC stabiliser. Molecular sieve. Ion exchange. Catalyst. The Zeolite porous crystal structure is designed to lock up specific size metal ions (such as Calcium, Magnesium, Iron, Copper and Manganese).

Supplier Name: Telford Industries

Street Address: 7 Valentine Street, Kewdale WA 6105

Telephone: 1800 835 115

Facsimile: 1800 835 222

Emergency Telephone Number: 0409 313 441

2. HAZARDS IDENTIFICATION

This material is non-hazardous according to health criteria of NOHSC Australia.

Hazard Category:

No data available.

Risk Phrase(s):

No data available.

Safety Phrase(s):

No data available

3. COMPOSITION / INGREDIENTS INFORMATION

CHEMICAL NAME	CAS NUMBER	PROPORTION
Zeolites Na TYPE A	68989-22-0	>99.5%
Moisture loss on drying at 105°C	7732-18-5	<0.5%
Hydrate loss on ignition at 800°C	7732-18-5	18.0-22.0%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone 131 126)

Inhalation: Remove from exposure to fresh air. Seek medical attention if health effects develop or persist..

Skin Contact: Wash skin with plenty of water. Seek medical advice if irritation effects develop or persist.

Eye Contact: Flush with plenty of water for at least 15 minutes, ensuring eyelids are held open and seek medical advice if irritation persists.

Ingestion: Immediately rinse mouth with water. Repeat until product is thoroughly removed. Give water to drink. Get medical attention if effects develop or persist.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific Hazards: Product is non-flammable.

Fire-fighting further advice: Fire fighters should wear a positive-pressure self contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Suitable extinguishing media: In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.

Hazchem Code: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal: Avoid accidents, clean up immediately. May be slippery when spilt. Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment. Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to suitable, labelled container and dispose of promptly.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: Ensure eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eye, skin and clothing. Do not inhale product dust/fumes.

Storage: Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible material as listed in Section 10. Protect from direct sunlight, moisture and static discharges. Store in original containers or in clean metal or plastic containers and keep dry. Keep away from reactive metals such as aluminium, copper, zinc etc. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. Packaging must comply with requirements of hazardous substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer. Unsuitable container: Reactive metals such as aluminium, copper, zinc etc will be unsuitable due to the alkaline pH reacting with these materials, plus the metal ions then being taken up by the zeolite structure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure for the dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Biological Limit Values: No information available on biological limits for this product.

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant as its source, preventing dispersion of it into the general work area.

Personal Protective Equipment: RESPIRATOR: Wear an effective dust mask where dusts/vapours are generated and engineering controls are inadequate (AS1715/1716) EYES: Safety glasses with side shields (AS1336/1337). HANDS: PVC or rubber gloves (AS2161). CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odour: White fine powder (high surface area). No odour.

pH: 10-11

Vapour Pressure: Not applicable

Vapour Density: Not available

Boiling Point/Range °C: Not available.

Melting Point/Range °C: >600°C.

Solubility in Water: Insoluble.

Specific Gravity: Not applicable

Flash Point (°C): Not available

Flammability Limits (%): Not available

Ignition Temperature (°C): Not available

Molecular Formula: Na₂O.A12O₃.2SiO₂.4.5H₂O

Additional Information:

(Typical values only – consult specification sheet)

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions of use, storage and temperature.

Conditions to Avoid: Excessive heat, generating dust, direct sunlight, moisture and high temperatures.

Incompatible Materials: Acids will react with alkaline dispersions. Strong acids and strong

alkalis will break down the Zeolite pore structure and dissolve it. Reactive metals such as Aluminium, copper, zinc etc will be unsuitable due to the alkaline pH reacting with these materials, plus the metal ions then being taken up by the Zeolite structure.

Hazardous Decomposition Products: No data available.

Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Inhalation: Causes sneezing, burning or itching of the nose and throat.

Skin Contact: Causes an itching or burning sensation. Repeated or prolonged skin contact may cause dry skin. Defatting of the skin can result in irritation and dermatitis.

Eye Contact: Dusts may cause physical irritation to the eyes. May cause pain, redness and tearing.

Ingestion: May cause irritation to mouth, throat and stomach

Long Term Effects: No data available.

Acute Toxicity / Chronic Toxicity: Estimated Oral LD50 Rat: >5000mg/Kg Sub Chronic Toxicity: It is metabolised by being hydrolysed and excreted. Chronic Toxicity: No oral effects. Non-carcinogen at .01% in the diet. N inhalation effects at 50mg/m³ for 12 months and no effects at 20mg/m³ for 22 months. Carcinogenic Effects: Not listed as Carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence & Degradability: The material is stable and does not rapidly degrade. In neutral, phosphate free water the half life of Zeolite A is approximately 1-2 months. In the presence of Calcium and Phosphate at the concentrations that are typical of natural waters the final products formed are poorly soluble Calcium Aluminium Silicate Phosphate.

Mobility: Expected to be immobile in soil. Insoluble in water.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

Classified as Non Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG code) for transport by road and rail.

UN No:	Not applicable.
Dangerous goods Class:	Not applicable.
Packing Group:	Not applicable.
Hazchem Code:	Not applicable.
Proper Shipping Name:	ZEOLITE

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not available.

16. OTHER INFORMATION

Telford Industries reserves the right to change the chemical specifications without notice.

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises Telford Industries best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Telford Industries expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

END OF MSDS



TELFORD INDUSTRIES

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