

ABHITECH ENERGYCON LIMITED.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

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Product Name : THERMACT- a multifunctional Thermoactive
Powder for fireside treatment of boilers.

Product Use : Coal & Bagasse

2. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black crystalline powder.

Odor : Odourless

Solubility : Insoluble in water

Specific Gravity : 1.5 – 1.8

pH Of 10% Suspension : 7.6

3. STABILITY AND REACTIVITY

Stability : Stable under ordinary conditions of use and storage

Hazardous Decomposition Products : Involvement in a fire causes formation of carbon
dioxide and carbon monoxide.

Hazardous Polymerization : will not occur.

Incompatibilities : Liquid air and oxidizing materials. Strong oxidizers
Such as ozone, liquid oxygen, chlorine, permanganate
etc.

Conditions to Avoid : Incompatibles

Issue Date:10/1/1999

4.

HAZARDS IDENTIFICATION

Emergency Overview	:	Flammable Solid
Caution	:	THERMACT (if Wet) removes oxygen form air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and federal regulations.
Health Rating	:	1 – Slight
Flammability Rating	:	3- Severe (Flammable)
Reactivity Rating	:	1 – Slight
Contact Rating	:	1 – Slight
Lab Protective Equipment	:	Goggles; Lab Coat; CLASS B EXTINGUISHER
Storage Color Code	:	Orange (General Storage)

5.

POTENTIAL HEALTH EFFECTS

Inhalation	:	May cause mild irritation to the respiratory tract. The Acute inhalation LC ₅₀ (Rat) is >64.4 mg/l (nominal Concentration) for THERMACT.
Ingestion	:	No adverse effects expected. May cause mild irritation To the gastrointestinal tract. The acute oral LD ₅₀ (Rat) is >10 g/Kg.
Skin Contact	:	Not expected to be health hazard from skin exposure. May cause mild irritation and redness. The primary Skin irritation index(Rabbit) is 0.
Eye contact	:	No adverse effects expected. May cause mild irritation Possible reddening.
Aggravation of Pre-existing Conditions	:	No information found.

6.

FIRST AID MEASURES

Inhalation	:	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	:	Give several glasses of water to drink to dilute. If Large amounts were swallowed, seek medical attention.

Skin contact	:	Not expected to require first aid measures. Wash Exposed area with soap and water. Seek medical Attention if irritation develops.
Eye Contact	:	Wash thoroughly with running water for at least 15 minutes . Seek medical attention if irritation develops.

7. **FIRE FIGHTING MEASURES**

Fire	:	As with most organic solids, fire is possible at elevated temperature or by contact with an ignition source.
Explosion	:	Fire dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.140 g/l.
Fire Extinguishing Media	:	Water or Water Spray
Unusual Fire and Explosion Hazards	:	Contact with strong oxidize such as ozone, liquid oxygen, permanganate, etc. may result in fire.
Special Information	:	In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode..

8. **Accidental Release Measures**

Measures	:	Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment. Clean up spills in a manner that does not disperse dust into air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Warning! Spent product may have absorbed hazardous materials.
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9. **Handling and Storage**

: Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

CAUTION!! Wet THERMOL removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal or national regulations.

10. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ventilation System

: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved) :

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full – face positive-pressure, air supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection

: Wear protective gloves and clean body-covering Clothing.

Eye Protection

: Use Chemical safety goggles. Maintain eye wash fountain and quick –drench facilities in work area.

11. ECOLOGICAL INFORMATION

Environmental Fate : No information found

Environmental Toxicity : No information found

12. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contaminations of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

13. TRANSPORT INFORMATION

Proper Shipping Name : Not Regulated

Hazard Class : N/A

Identifications Number : N/A

Packing Group : N/A
