

Material Safety Data Sheet

Livnat Hamamot aleph

לבנת חממות א

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Common name: Livnat Hamamot aleph

Synonyms: Carbonic acid calcium salt; aragonite; limestone.

Formulation Type: WP

Manufacturer: Tapazol Chemical works Ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no.	Quantity (%)
Calcium Carbonate	471-34-1	90-100

3. HAZARDS IDENTIFICATION

Nuisance dust, may cause irritation to skin, eyes and respiratory system.

Inhalation of excessive concentrations may cause nuisance conditions such as coughing, sneezing and nasal irritation.

Excessive oral doses of calcium carbonate may produce alkalosis and hypercalcemia.

4. FIRST AID MEASURES

Eyes: Wash thoroughly with running water. Get medical advice if irritation develops.

Skin: Wash exposed area with soap and water. Get medical advice if irritation develops.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Note to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: N/A.

Flammable properties: Will ignite and burn fiercely in contact with fluorine. When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs.

Extinguishing media: Use any means suitable for extinguishing surrounding fire.

Protective equipment: 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.

Hazardous decomposition products: When heated to decomposition (825°C) emits calcium oxide fumes and liberates carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Ventilate area of leak or spill. Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Environmental Protection: Prevent the material from entering sewage and water courses.

Procedure: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Wash clothes, equipment and work area after cleaning.

7. HANDLING AND STORAGE

Storage: Store in tightly closed original container in a cool, dry, well-ventilated area out of direct sunlight and out from the reach of children. Do not store with food, feedstuffs, fertilizers and seeds.

Handling: Wear personal protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

Do not eat, drink or smoke while handling.

Change clothes and wash thoroughly when finishing working with the product.

Wash working clothes in separate from household laundry and do not re-use clothes that are not washed.

See product label for further handling/storage precautions relative to the end use of this product.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Airborne Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 15 mg/m³ total dust, 5 mg/m³ respirable fraction for nuisance dusts.

ACGIH Threshold Limit value (TLV): 10 mg/m³ total dust containing no asbestos and < 15% crystalline silica for Particulates Not Otherwise Classified (PNOC).

Engineering controls: A system of local and/or general exhaust is recommended to keep employees exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the containment as its source, preventing dispersion of it into the general work area.

Eye/ Face protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work areas.

Skin/Body protection: Long-sleeved shirt, long pants, closed shoes.

Hand protection: Gloves.

Respiratory protection: If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full face-piece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine, white powder.

Odor: Odorless.

Melting point: 825⁰C.

Solubility: 0.001 g/100ml water, soluble in dilute acids, insoluble in alcohol.

Specific gravity: 2.7-2.95

10. STABILITY AND REACTIVITY

Chemical stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Heat, incompatibles. Will ignite and burn fiercely in contact with fluorine. When a mixture of calcium carbonate and magnesium is heated in a current of hydrogen, a violent explosion occurs.

Incompatibilities: Acids, oxidizing agents, fluorine, magnesium with hydrogen.

Hazardous decomposition products: When heated to decomposition (825⁰C) emits calcium oxide fumes and liberates carbon dioxide.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: Non-toxic. LD50 >5000 mg/kg for rat.

Dermal: Not expected to be a health hazard from skin exposure.

Inhalation: Excessive concentrations of a nuisance dust may cause nuisance conditions such as coughing, sneezing and nasal irritation. May cause irritation to the respiratory tract.

Skin irritation: Irritant.

Eye irritation: Irritant.

Chronic toxicity:

The product is not carcinogen.

Excessive oral doses of calcium carbonate may produce alkalosis, hypercalcemia and affect kidneys.

12. ECOLOGICAL INFORMATION

The product and its products of degradation are not toxic.

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces.

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.

14. TRANSPORT INFORMATION

Not a regulated substance.

UN no: N/A. **Class:** N/A. **Packaging group:** N/A.

15. REGULATORY INFORMATION

R phrases: R36/37/38: Irritating to eyes, respiratory system and skin

NFPA Rating: Health: 1, Flammability: 0, Reactivity: 0.

16. OTHER INFORMATION

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