

Material Safety Data Sheet	
CALCIUM HARDNESS INDICATOR	VERSION : 02 DATE OF ISSUE : 26-08-2019 SUPERSEDES : 01
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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Calcium Hardness Indicator

Product Code: 31395

Identification of the product : Calcium Hardness Indicator

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Use as a laboratory reagent. Industrial (not for food or food contact use).

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards Identification-DSD

2.1 OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

2.2 Potential health effects

Principle Routes of Exposure

Skin and eye contact.

Acute toxicity

Eyes : May cause irritation.

Skin : May cause irritation.

Inhalation: Not an expected route of exposure.

Ingestion: May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large amounts.

Chronic effects : None known.

Aggravated Medical Conditions : None known.

Interactions with Other Chemicals : None known.

2.3 Emergency Overview : May cause skin and eye irritation May be harmful if swallowed Large oral doses may cause gastrointestinal irritation and circulatory problems

Environmental hazard : No information available.

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3. Composition/Information On Ingredients

Substance / Preparation : Calcium Hardness Indicator

Substance name	Contents	CAS No
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[(hexahydro-2,4,6-trioxo-5-pyrimidinyl)imino] monoammonium salt	<0.5	3051-09-0 <0.5
Carboxymethylcellulose	- 1-5	-----
Polyamino Carboxylic acid -	-----	
Lithium hydroxide	10	1310-65-2
Carbonate salt	10-15	-----
Potassium salt	35-45	-----

4. First Aid Measures

4.1 General advice : Do not get in eyes, on skin, or on clothing.

Eye contact : Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally lifting upper and lower eyelids. If irritation persists or develops, contact a physician.

Skin contact : Wash off with warm water and soap. If irritation develops or persists, consult physician.

Inhalation : Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel.

Ingestion : Drink plenty of water. Clean mouth with water. If gastrointestinal distress occurs contact physician. Consult a physician. Rinse mouth.

4.2 Self-protection of the first aider: Use personal protective equipment. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. Fire-Fighting Measures

Flammable properties : Not a fire hazard.

Flash point : Not Applicable

Suitable extinguishing media : Water spray, dry chemical, carbon dioxide (CO₂), or foam.

6. Accidental Release Measures

6.1 Personal precautions

See section 8. Avoid contact with the skin and the eyes.

6.2 Methods for containment: Sweep up in a manner that does not disperse dust and shovel into suitable containers for disposal.

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6.3 Methods for cleaning up

Containerize spill material and hold for later disposal. If local regulations permit, dissolve with large volume of water, neutralize with dilute acid (acetic, hydrochloric), then rinse to drain with excess water. After cleaning, flush away traces with water.

7. Handling And Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using this product.

7.2 Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat, moisture, and incompatibles. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

8.1 Engineering Measures

None under normal use conditions. For home use.

8.2 Personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear latex or nitrile gloves.

Respiratory protection

None required under normal usage.

8.3 Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

9. Physical And Chemical Properties

Odor : Odorless

Flash point : Not Applicable

Boiling point / boiling range : No information available

Explosion Limits : Not Applicable

Molecular weight : No data available

Stability : Stable.

Freezing Point : No information available

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Water solubility : Soluble in water
Evaporation Rat: Not applicable
Flammability (solid,gas): No information available
Explosion Limits : No data available
Vapor Pressure: No data available
Vapor Density: Not applicable
Specific Gravity / Density: No data available
Bulk Density : No data available
Solubility in other solvents : No information available
Partition Coefficient (n-octanol/water)
Decomposition Temperature: No data available
Viscosity : Not applicable
Explosive Properties : No information available
Oxidizing Properties: No information available

10. Stability And Reactivity

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

11. Toxicological Information

Product Information No acute toxicity information is available for this product

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met

Dermal Based on available data, the classification criteria are not met

Inhalation Based on available data, the classification criteria are

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m3 (Rat) 1 h

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(b) skin corrosion/irritation; No data available
(c) serious eye damage/irritation; No data available
(d) respiratory or skin sensitization;
Respiratory No data available
Skin No data available
(e) germ cell mutagenicity; No data available
(f) carcinogenicity; No data available
 There are no known carcinogenic chemicals in this product
(g) reproductive toxicity: No data available
(h) STOT-single exposure: No data available
(i) STOT-repeated exposure: No data available
Target Organs : No information available.
(j) aspiration hazard: Not applicable
Symptoms / effects,both acute and delayed: No information available

12. Ecological Information

12.1. Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

12.2. Persistence and degradability

Persistence Soluble in water, Persistence is unlikely, based on information available.

Degradability Not relevant for inorganic substances.

12.3. Bioaccumulative potential Bioaccumulation is unlikely

12.4. Mobility in soil The product is water soluble, and may spread in water systems
 Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

Assessment No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant This product does not contain any known or suspected substance

Ozone Depletion Potential This product does not contain any known or suspected substance

13. Disposal Considerations

13.1. Waste treatment methods

Waste from Residues / Unused

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Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

14. Transport Information

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to

Not applicable, packaged goods

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No significant hazard. Safety phrases:

S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's

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attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

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End of document

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