



WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town,
Kolkata – 700 089, India.
Phone: +9133 4025 1700 Fax: +9133 2574 7410
Email: wbcil@wbcil.com Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

1.1 MSDS Name: Calcium Acetate

1.2 Product Code : CAEIH99 (IN HOUSE)

1.3 Company Identification:

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Section 2 - Composition / Information on Ingredients

3.1 Substances

SI No	Ingredient Name	CAS Number	EC no	Molecular Formula	Molecular Wt
1)	Calcium Acetate	62-54-4	269-613-0	C ₄ H ₆ CaO ₄	158.17 g/mol

Section 3 - Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram none

Signal word none

Hazard statement(s) none

Precautionary statement(s) none

Supplemental Hazard none

Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

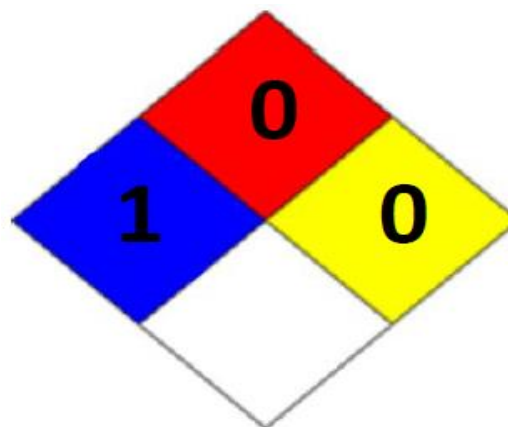
2.4 Not highly flammable

H315: Causes skin irritation

H319: Causes serious eye

H335: May cause respiratory irritation

P261: Avoid breathing



NFPA SCALE (0-4)





Section 3 - Hazards Identification

dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P302+P352: IF ON SKIN: wash with plenty of water/...

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321: Specific treatment

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P264+P265: Wash hands thoroughly after handling.

Do not touch eyes.

P319: Get medical help if you feel unwell.

P332+P317: If skin irritation occurs: Get medical help.

P337+P317: If eye irritation persists: Get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	x

HMIS RATINGS (0-4)

GHS07



Irritant

Section 4 - First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

In case of contact, immediately flush eyes with plenty of water. Cold water may be used. Check for and





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Section 4 - First Aid Measures

remove any contact lenses. Get medical attention if irritation occurs.

If swallowed

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If victim conscious and alert give 2-4 cup fills of milk or water. If large quantities of this material are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

Section 5 - Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Calcium oxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.





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Section 7 - Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place.

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

Storage class (TRGS 510): Non Combustible Solids.

7.3 Specific end use(s)

Laboratory chemicals, Manufacture of substances

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.





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Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance Form

Form : Solid, powder in nature.

Color : White.

Solubility : Soluble in water

Dissociation constant (pKa) at 25 °C : 4.76

Vapour pressure at 20 °C (mPa) : 731

Partition coefficient n-octanol/water (log value): -1.38 (ECHA)

9.2 Other safety information:

No data available

no data available

Section 10 - Stability and Reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products -No data available

In the event of fire: see section 5

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute toxicity refers to the short-term effects of a substance on aquatic organisms. It is typically measured by the median lethal concentration (LC50), which is the concentration of a substance that is lethal to 50% of the test organisms within a specific exposure time.

Chronic toxicity refers to the long-term effects of a substance on aquatic organisms. It can include effects on reproduction, growth, and development. In the image, the EC50 for microorganisms is 6.949 mg/L after 16 hours of exposure. The EC50 is the concentration of a substance that causes a specific effect in 50% of the test organisms.

Highest exposure level for a substance that is likely to be without unacceptable adverse effects. Acute effects systemic (Dermal): DNEL = 11.57mg/kg bw/day. Chronic effects systemic (Dermal): DNEL = 69.44mg/kg bw/day, ute effects systemic (Inhalation): DNEL = 1020.28mg/m³, Chronic effects systemic (Inhalation): DNEL = 6121.68mg/m³

LD50 Oral-Rat-2.700 mg/kg





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Section 11 - Toxicological Information

(OECD Test Guideline 401)

LC50 Inhalation-Rat-4 h-> 5,6 mg/l

LD50 Dermal-Rabbit-> 20.000 mg/kg

Acute effects

LDLo 147 mg/kg (intravenous, rat)

LD50 75 mg/kg (intraperitoneal, mouse)

LD50 203 mg/kg (intravenous, mouse)

Skin corrosion/irritation

Skin-Rabbit

Result: No skin irritation

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes-Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization

Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Section 12 - Ecological Information

12.1 Toxicity:

Toxicity to fish

Semi-static test LC50-Oncorhynchus mykiss (rainbow trout)-> 1.000 mg/l-96h
(OECD Test Guideline 203)

Remarks: Read-across (Analogy)

Toxicity to daphnia & other aquatic

Static test EC50 -Daphnia (water flea)-> 919 mg/l-48 h
(OECD Test Guideline 202)





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Section 12 - Ecological Information

invertebrates Remarks: Read-across (Analogy)

12.2 Persistence and degradability:

Biodegradability

Result: -Readily biodegradable(C.4-A of the COUNCIL REGULATION (EC) No 440/2008)

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material
Identification	:	Not applicable.
Special Provision for Transport	:	Not applicable

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out





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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

Issue Date: June, 2024

Revision Date: May, 2026

Revision No.: 03

