SDS

永华化学股份有限公司
YONGHUA CHEMICAL CO., LTD.

Calcium carbonate

1. Product Identification

Synonyms: Precipitated chalk; Aragonite; Agricultural limestone; Agstone; Bell mine pulverized limestone; Calcite; Dolomite; Franklin; Boiling chips

CAS No.: 471-34-1

Manufacturer/supplier:

Yonghua Chemical Co., Ltd.
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2. Composition/Information on Ingredients

CAS No.	Chemical Name	Content	EINECS#
471-34-1	Calcium carbonate	⩽100	207-439-9

Hazard Symbols: XI

Risk Phrases: 36

3. Hazards Identification

EMERGENCY OVERVIEW

Irritating to eyes.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

Causes skin irritation.

Ingestion:

Ingestion of large amounts may cause gastrointestinal irritation.

Expected to be a low ingestion hazard.

Inhalation:

Low hazard for usual industrial handling. Excessive inhalation may cause minor respiratory irritation.

Chronic:

Chronic ingestion may cause hypercalcemia, alkalosis, and kidney damage. May also produce "milk-alkali syndrome" characterized by neurological symptoms such as irritability, lethargy, stupor, and coma.

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

5. Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

7. Handling and Storage

Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid

breathing dust.

Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids.

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8. Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 471-34-1: United Kingdom, WEL - TWA: (listed as calcium carbonate): 10 mg/m TWA (inhalable dust); 4 mg/m3 TWA (respirable dust) United Kingdom, WEL - STEL: (listed as calcium carbonate): 30 mg/ STEL (inhalable dust); 12 mg/m3 STEL (respirable dust) United States OSHA: 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (listed under Calcium carbonate).

Belgium - TWA: (listed as calcium carbonate): 10 mg/m3 VLE France - VME: (listed as calcium carbonate): 10 mg/m3 VME Germany: (listed as calcium carbonate): 10 mg/m3 VME Japan: (listed as calcium carbonate): 1 mg/m3 OEL (respirable dus 4 mg/m3 OEL (total dust) Malaysia: (listed as calcium carbonate): 10 mg/m3 TWA (particulat matter containing no asbestos and <1% crystalline sili Netherlands: 10 mg/m3 MAC Russia: 6 mg/m3 TWA Spain: 10 mg/m3 VLA-ED Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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9. Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: odorless

pH: 8-9 (solution)

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 825 deg C (dec)

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 825 deg C

Solubility in water: Slightly soluble in water.

Specific Gravity/Density: 2.7-2.9

Molecular Formula: CaCO3

Molecular Weight: 100.09

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10. Stability and Reactivity

Chemical Stability:

Stable.

Conditions to Avoid:

Dust generation, moisture, high humidity.

Incompatibilities with Other Materials:

Will ignite on contact with fluorine; incompatible with acids, alum, ammonium salts and mercury + hydrogen.

Hazardous Decomposition Products:

Calcium oxide.

Hazardous Polymerization: Has not been reported.

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11. Toxicological Information

RTECS#:

CAS# 471-34-1: FF9335000 LD50/LC50:

CAS# 471-34-1: Draize test, rabbit, eye: 750 ug/24H Severe; Draize test, rabbit, skin: 500 mg/24H Moderate; Oral, rat: LD50 = 6450 mg/kg.

Carcinogenicity:

Calcium carbonate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

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12. Ecological Information

Ecotoxicity:

This chemical is expected to cause no oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms.

Acute aquatic effects: 48-hour LC50; Mosquito fish: 56,000 mg/L.

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13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

IMO

No information available.

IATA

No information available.

RID/ADR

No information available.

Canadian TDG

No information available.

15.Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

S 39 Wear eye/face protection.

WGK (Water Danger/Protection)

CAS# 471-34-1: 0

Canada

CAS# 471-34-1 is listed on Canada's DSL List.

CAS# 471-34-1 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 471-34-1 is listed on the TSCA inventory.

16. Other Information

Yonghua Chemical Co., Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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