

Material Safety Data Sheet (MSDS)

1. COMPANY IDENTIFICATION

Manufacturer: Adicon Co., Ltd.
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Department: Production Department
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2. PRODUCT NAME (TRADE NAME): ADICOAL (Lime additive)

3. COMPOSITION DETAILS

Substance/Preparation: Preparation, water solution, white liquid
Components: Contains magnesium hydroxide, paraffin mainly consisting of carbon numbers 11 to 13, olefin, naphthene, aromatic compounds of hydrocarbons, fruit extract of 1% or less, and fruit enzyme derivatives

4. HAZARD IDENTIFICATION

Classification name: Not available
Hazards: Toxic, hazardous fumes may be generated if thermally decomposed.

Adverse effects on human health

(Inhalation)

Acute symptoms: Excitation, headache, hallucination, ear ringing, inebriation, digestive trouble, anesthesia, hypomnesia, dysphonia, aglutition, low body temperature, chill, cyanosis, weak pulsation or weak breath may be caused, leading to pleurisy and pulmonary edema.

(Inhalation)

Chronic symptoms: Dysemia (hematopenia, low sedimentation rate), reduced conjunctival reflex or increased knee jerk may be caused, leading to chronic neuritis.

(Ingestion)

Low toxicity. If inadvertently ingested or vomited, a small amount of the liquid absorbed into the

- respiratory organs may cause moderate or serious pulmonary damage with a possibility of causing death.
- (Skin contact) The abovementioned symptoms may be caused by its irritative characteristics or caused chronically through percutaneous absorption.
- (Eye contact) Conjunctivitis or keratitis may be caused by its irritative characteristics.

Hazard class NFPA, Human health = 1, Fire = 0, Reactivity = 0 (Scale: 0 to 4)

5. FIRST-AID MEASURES

- Eye contact: Gently rinse the eyes with clean water for 15 minutes or more.
Consult a doctor as soon as possible.
- Skin contact: Immediately pull the contaminated clothes and shoes off.
Rinse the affected part of skin with tepid water using soap.
Consult a doctor if pain persists.
- Inhalation: Immediately cover the patient with a blanket etc., and rest him/her in a place with fresh air.
If the patient has difficulty in breathing, immediately practice respiration on him/her, and get medical attention as soon as possible.
- Ingestion: Rinse the mouth with water thoroughly. If the patient is conscious, give him/her a cup of water or two and throw up.
Get medical attention as soon as possible.
- Notes for the doctor: The following antidotes are recommended.
Poisoning with magnesium compounds: Infuse 10ml of gluconic acid calcium intravenously for a few minutes or more, if the patient shows symptoms with the magnesium level of blood serum exceeding 5meq/L.
The necessity of infusion of antidotes is determined by the doctor.

6. FIRE-FIGHTING MEASURES

- Extinguishing method: Immediately remove the containers to a safe place. If it is impossible to remove the containers, sprinkle water over and around them to lower the temperature.

Extinguishing media: All kinds of extinguish media can be used.

7. ACCIDENTAL LEAKAGE MEASURES

Carefully sweep up the spill not to generate particulates, and collect and store it in a container for disposal. Wash away the rest of the spill with a large amount of water.

8. HANDLING AND STORAGE

Handling: The product must be handled on in a well-ventilated place. Be careful not to inhale the particulates.

Avoid skin contact and eye contact. After handling the product, wash your hands and rinse your mouth thoroughly. Use the respiratory protection tools.

Storage: Seal and store the containers. Store the containers in a well-ventilated place. Store the containers in a place away from strong oxidizers and acid haloid substances. Avoid long-period storage because deterioration of the product will result.

9. EXPOSURE CONTROLS

Control density: Not specified

Values recommended by Japan Society for Occupational Health: Not specified

ACGIH: Not specified

OSHA: Not specified

Equipment: Install ventilators and a local exhaust system in the workplace.

Protective tools

Respiratory protection tools: Use a disposable dustproof mask or replaceable dustproof mask. (JIS T8160 T8151)

Protective glasses: Use a protective goggle for industrial use if there is a possibility of eye contact. (JIS T8148)

Protective gloves: Use impermeable, protective gloves as required. (JIS T8116)

Protective clothes: Use impermeable, protective clothes as required. (JIS T8115)

10. PHYSICAL/CHEMICAL PROPERTIES

Exterior etc.: White water solution

11. HAZARD INFORMATION (STABILITY AND REACTIVITY)

Flash point:	— K
Ignition point:	— K
Explosion limit:	Upper — %, Lower — %
Flammability:	Non flammable
Combustibility:	None
Oxidation:	None
Self-reactivity and explosiveness:	None
Explosiveness of particulates:	No useful information available
Stability and reactivity:	Supposed to be stable under normal storage and handling conditions Toxic, hazardous fumes may be generated if thermally decomposed.

12. INFORMATION ABOUT ENVIRONMENTAL EFFECTS

Decomposition:	No useful information available
Accumulation:	No useful information available
Fish toxicity:	No useful information available

13. DISPOSAL CONSIDERATIONS

The waste must be disposed after being neutralized.
The waste must be disposed of by a waste disposal company.

14. TRANSPORT CONSIDERATIONS

Avoid transporting this product with strong acid substances.

15. APPLICABLE LAWS AND REGULATIONS

Marine Pollution Prevention Law:	Law Relating to Prevention of Marine Pollution and Maritime Disaster (No.36 of Attached Table 1-2)
Basic Environment Law:	Environmental Standards Relating to Water Pollution
Feed Safety Law:	Ordinance of Ministry Relating to Ingredients Standard for Feeds and Feed Additives (No.97 of Attached Table 2-7)

TSCA: 1309-42-8
EINECS: 2151703
PRTR Law: Types 1 and 2 not applicable
Labor Safety and Sanitation Law: Not applicable to the substances to be informed of