

CALCIUM CHLORIDE
MATERIAL SAFETY DATA SHEET

1. Identity of the substance/preparation and of the Company

Product : Humigard Active Gel/Calcium Chloride

PT. HUMIGARD INDONESIA
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CAS Number and Chemical name:
10043-52-4 Calcium Chloride
VIB nr: KA006

2. Composition/Information on Ingredient

<u>Chemical Name</u>	<u>Conc %</u>	<u>Symbols</u>	<u>R-phrases</u>
Calcium Chloride	min75	Xi	R36
Modified Starch	min 25	Nil	(inert/no known safety aspect)
PE/PP Packaging		Nil	(inert/no known safety aspect)

3. Hazards Identification

HAZARD SYMBOL: Xi=Irritating

R36 Irritating to eyes

No Environment and fire hazard classification according to EU directive

4. First Aid

Inhalation: Remove to fresh air, consult a doctor in case of symptoms.

Skin Contact: Remove contamination clothing, wash with plenty of water.

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Eye Contact: Rinse with opened eye for several minutes under running water, Consult a doctor in case of symptoms.

Ingestion: If the victim is conscious give large quantities to drink, preferably milk, do not induce vomiting, if large quantities swallowed or if symptoms persist contact a doctor.

5. Fire-fighting Measures

Extinguishing Media:

**No limitations for fighting surrounding fire
In case of fire cool endangered containers with water**

Fire & Explosion Hazards:

**Calcium Chloride is not combustible
Other components are non-explosive**

6. Accidental Release Measures

The powders are normally contained within sealed dustproof pouches.

Sweep up spilling or waste and collect in containers.

Avoid dust, flush clean with waters.

Personal Protection: See point 8.

7. Handling and Storage

Handling:

Good industrial hygiene, avoid contact with skin and eyes

Storage:

Store in original closed containers in dry place

8. Exposure Control/Personal Protection

The powders are normally contained within sealed dustproof pouches and will not be released during normal use. Undamaged products can be handle safely without any protection measures.

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If powder is released:

Respiratory: Use respirator in case of heavy dusting

Eyes Protection: Safety glasses

Hand Protection: Glove

Skin Protection: Protective clothing if necessary

9. Physical and Chemical Properties

Product description:

(Calcium Chloride) colorless, very hygroscopic crystal without odor

Density (kg/m³): approx 2510

Boiling Point (C): >1600

Melting Point ©: 772

Solubility in water approx 43% at 20C

R steam density: Very Low

Flash Point (C): none

Ignition Temp (C): none

Ph value: 8-12 (10% solution)

Formula: CaCl₂

Molecular weight (g/mol): 111

Bulk Density: 800-1100 kg/m³

10. Stability and Reactivity

Stability: stable under normal conditions

React with/material to avoid: Freely soluble in water with much heat

11. Toxicological Information

Acute toxicity: LD50 oral (rat) 1000mg/kg

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Inhalation:

Dust can cause irritation to the mucous membranes resulting in coughing and difficulty in breathing at high dust concentration.

Skin irritation:

May cause skin irritation, prolonged skin contact may cause redness and blistering.

Eye irritation:

Dust or splash from concentrated solution may cause pain and possible even transient damage to the eye.

Ingestion:

Ingestion may cause irritation in nose and throat, intestinal and gastric disturbances.

12. Ecological Information

No ecological restrictions or recommendations on the product are available.

13. Disposal Considerations

Eliminate waste in conditions authorized by regulations

14. Transport Information

Not dangerous goods according to transport regulation, safe to travel by air and sea.

15. Regulatory Information

Risk and safety Phrases

R36 Irritating to eyes

S22 do not breathe dust

S24 Avoid contact with skin

16. Other Information

Nil

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