Section 1: Product Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Calcium Chloride 94%</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White flakes/pellet/powder</td>
<td></td>
</tr>
<tr>
<td>Purity as CaCl₂</td>
<td>94% min.</td>
<td>95.6</td>
</tr>
<tr>
<td>Alkalinity as Ca(OH)₂</td>
<td>0.25% max.</td>
<td>0.13</td>
</tr>
<tr>
<td>Total Alkali Chloride (as NaCl)</td>
<td>5.0% max.</td>
<td>2.8</td>
</tr>
<tr>
<td>Water Insoluble</td>
<td>0.25% max.</td>
<td>0.02</td>
</tr>
<tr>
<td>Fe</td>
<td>0.006 max.</td>
<td>0.002</td>
</tr>
<tr>
<td>PH</td>
<td>7.5-11.0</td>
<td>8.8</td>
</tr>
<tr>
<td>Total Magnesium (as MgCl₂)</td>
<td>0.5% max.</td>
<td>0.25</td>
</tr>
<tr>
<td>Sulfate (as CaSO₄)</td>
<td>0.05% max.</td>
<td>0.03</td>
</tr>
</tbody>
</table>

Section 2: Product + Company Identification

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Name</td>
<td>Calcium Chloride</td>
</tr>
<tr>
<td>Chemical Name and/or Synonym</td>
<td>Calcium Chloride, Anhydrous</td>
</tr>
<tr>
<td>Formula</td>
<td>CaCl₂, CAS No. 10043-52-4</td>
</tr>
<tr>
<td>Product Use</td>
<td>Delcer, dust control, mud drilling lubricant, freeze-proofing of ores and aggregates, thawing agent, concrete conditioner</td>
</tr>
</tbody>
</table>

Food grade material is used as a food additive

Section 3: Composition + Data on Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Characterization</td>
<td>Calcium Chloride-Granules (10043-52-4)</td>
</tr>
<tr>
<td>Identification Number(s)</td>
<td>None allocated</td>
</tr>
</tbody>
</table>

Section 4: Hazards Identification

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Dust or mist inhalation may irritate nose, throat and lungs</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Low in toxicity. May irritate gastrointestinal tract and cause nausea and vomiting</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation. Prolonged contact when moisture is present may result in superficial burns. Contact with abraded skin or cuts can cause severe necrosis.</td>
</tr>
<tr>
<td>Eyes</td>
<td>May irritate or burn eyes</td>
</tr>
</tbody>
</table>
Section 5: First Aid Measures

Inhalation

Promptly remove to fresh air. Get medical attention.

Ingestion

If conscious, immediately give 2 to 4 glasses of water, and induce vomiting under medical supervision.

Skin

Remove contaminated clothing. Wash with plenty of soap and running water. Get medical attention if irritation persists.

Eyes

Flush eyes promptly with plenty of running water, continuing at least 15 minutes. Get medical attention.

Respiratory Protection

For dusty or misty conditions wear NIOSH approved dust or mist respirator.

Section 6: Fire Fighting Measures

Conditions of Flammability

Not applicable

Flash Point Method

Not applicable

Hazardous Combustion Products

None

% By Vol in Air

Upper Flammable Limit: n/a
Lower Flammable Limit: n/a

Auto Ignition Temperature

°C

Explosion Hazards

See section E – Incompatibility

Sensitivity to Mechanical Impact

Not applicable

Sensitivity to Static Discharge

Not available

Fire Extinguishing Procedures

Use extinguishing media appropriate for surrounding fire. For fire fighting wear NIOSH approved self contained breathing apparatus.

Section 7: Accidental Release Measures

Spill or Leak (Always wear personal protective equipment)

Shovel up dry chemical and place in metal drum with cover. Cautiously spray residue with plenty of water. Keep contaminated water from entering sewers and water course.

Section 8: Handling + Storage

Storage

Cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.

Normal Handling

Avoid contact with eyes, skin or clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.

Ventilation

Provide general and/or local exhaust ventilation to maintain dust or fume levels below exposure limits. Eye wash facility should be provided in storage and general work area.

Section 9: Exposure Controls + Personal Protection

Eyes and Face

For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hard hat. Under these conditions do not wear contact lenses.

Hands/Arms and Body

As a minimum, wear long-sleeved shirt, trousers, rubber boots and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.
Section 10: Physical + Chemical Properties

Material is at Normal Conditions

Appearance and Colour

Odour

Boiling Point

Freezing Point

Melting Point

Specific Gravity

Vapor Density (Air=1)

Vapor Pressure

Flash Point (Closed cup)

Solubility in Water

PH

Evaporation Rate (Ether=1.0)

% Volatiles by Volume

Molecular Wght

Section 11: Stability + Reactivity

Stability: Stable Conditions to Avoid

Incompatibility

Hazardous Decomposition Products

Hazardous Polymerization

Other Precautions

Section 12: Toxicological Information

Acute Toxicity

Chronic Toxicity

Exposure Limits

Section 13: Ecological Information:

Degradability

Aquatic Toxicity
Section 14: Disposal Considerations

Waste Disposal .......................... Consistent with the requirements of local waste disposal authorities

Section 15: Transport information

Not a hazardous material for transportation.

DOT Regulation

Hazard Class ............................. None

Land Transport ADR/RID

ADR/RID class .......................... None

Maritime Transport IMDG

IMDG Class ............................. None

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class ........................ None

Transport/Additional Information .......................... Not dangerous according to the above specifications.

Section 16: Regulations

National Regulations .......................... All components of this product are not listed in the Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

U.N.NO. ................................. None allocated

DG Class ................................. None allocated

Sub Risk ................................. None allocated

HAZCHEM ................................. None allocated

Poison Schedule .......................... None allocated

Section 17: Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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