

Safety Data Sheet

Brooks 35

SECTION 1. IDENTIFICATION

Product Form Liquid Brine Solution

Substance Name Brooks 35
Product Code Calcium

Other Means OfCalcium Chloride Brine, Dust Suppressant, Road Stabilizer, De-icing Brine,IdentificationConcrete Conditioner, Tire Ballast, Heavy Water, Industrial Calcium Brine, Drill

well Kill Fluid, CaCl₂

Recommended Use Industrial, Dust Control, De-icer, Tire Ballast, Oilfield Applications, Concrete

Conditioning, Agricultural

Restrictions on Use Not for Ingestion
Initial Supplier Identifier NSC Minerals Ltd.

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Emergency Telephone Call 1-306-934-6477

Number Monday – Friday (8:00 AM – 4:00 PM CST)

SECTION 2. HAZARD IDENTIFICATION

Classification Clear to brownish liquid – Category 2, Serious eye damage.

(!)

Label Elements None
Signal Word (GHS-US) Warning

Hazard Statements (GHS-US) Causes Skin irritation / causes serious eye irritation.

Precautionary Statements *Prevention* – Wear eye, face protection.

Response – Wash thoroughly after handling.

Storage — Store in well ventilated space a safe distance from incompatible materials. Disposal — Dispose of water / residues in accordance with local authority requirements.

Other Hazards None Identified.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name / Synonyms Liquid Calcium Chloride Solution

INGREDIENT NAME	% (W/W)	CAS NO.	GHS-US Classification
Water	61.0-67.0	7732-18-5	None
Calcium Chloride	26.5-28.5	10043-52-4	Skin/Eye Irritation
Magnesium Chloride	3.5-5.5	007791-18-5	None
Sodium Chloride	1.0-2.0	7647-14-5	None
Potassium Chloride	2.0-3.0	7447-40-7	None

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SECTION 4. FIRST AID MEASURES

4.1 FIRST AID BY ROUTE OF EXPOSURE

General If medical advice is needed, have product container or label at hand.

Inhalation If inhaled, remove to fresh air and keep at rest in a position comfortable for

breathing. Give oxygen or artificial respiration if necessary. Obtain medical

attention if breathing difficulty persists.

Skin Contact Wash skin thoroughly with mild soap and water. Obtain medical attention if

irritation develops or persists.

Eye Contact Immediately rinse with water for a prolonged period (15 minutes) while holding

the eyelids wide open including upper and lower lids. Obtain medical attention

if pain and irritation develops or persists.

Ingestion Rinse mouth immediately. Do not induce vomiting. Administer water if patient

is conscious. Ingesting will usually cause purging of the stomach by vomiting. Seek medical attention if a large amount is swallowed. Get medical advice and

attention if you feel unwell.

4.2 Most Important Symptoms and effects, both acute and delayed.

Symptoms/injuries: Irritation to eyes, skin and respiratory tract.

Symptoms/injuries after inhalation: Overexposure may be irritating to the respiratory system.

Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: May cause eye irritation.

Symptoms/injuries after ingestion: If a large quantity has been ingested : Abdominal pain; Diarrhea;

Nausea; Vomiting; Tingling in hands and feet; Weak pulse; Circulatory

disturbances

Chronic Symptoms: Prolonged inhalation of fumes may cause respiratory irritation.

4.3 Immediate medical attention and special treatment, if necessary

No additional information available.

SECTION 5. FIRE-FIGHTING MEASURE

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media Not Flammable. Non-Combustible. Isolate area and use extinguishing media

appropriate for surrounding fire.

Unsuitable Extinguishing

Media

None known.

5.2 SPECIFIC HAZARDS ARISING FROM PRODUCT

Fire Hazard Not considered a fire hazard.

Explosion Hazard Not considered an explosion hazard.

Reactivity Stable at ambient temperature and under normal conditions of use.

5.3 ADVICE FOR FIREFIGHTERS

Special Fire-Fighting

Procedures

Keep Upwind. Under conditions of fire this material may produce Calcium oxides; Hydrogen chloride gas. Containers close to fire should be removed immediately

or cooled with water

Protection during fire-

fighting

Wear full fire-fighting turn out gear (full Bunker gear) and respiratory protection

Other Information Run-off from fire firefighting should not be allowed to enter drains, water courses

or the soil

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SECTION 6. ACCIDENTAL RELEASE MEASURE

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

General Measures Do not breathe fumes from fires or vapors from decomposition. Spilled material may

cause slippery surfaces, potential for falls.

Protective Equipment for Emergency & Non-Emergency Personnel Wear suitable protective clothing, gloves and eye/face protection including tight fitting goggles in areas of high fume concentration. Wear NIOSH approved respiratory protective equipment when workplace conditions warrant use of respirator.

Small Spills Isolate area, eliminate source and contain spilled material if possible, recover free

liquid with absorbent mop or other appropriate means (sand) and collect for disposal.

Dilute residues with water, recover liquid with absorbent. Repeat as necessary

Large Spills Isolate area, eliminate source and contain with impermeable or absorbent barrier.

Recover free liquid and treat residues as for small spills. Prevent spills from entering

sewers or waterways.

6.2 ENVIRONMENTAL PRECAUTIONS

If spill could potentially enter any waterway, including intermittent dry creeks or in case of accident or road spill notify CHEMTREC at 800-424-9300 (in USA) or CANUTEC at 613-996-6666 (in Canada). In other countries call CHEMTREC at (International code) +1-703-527-3887.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

For Containment Contain and collect all liquid. Do not allow into soils, ditches, drains or water

courses or dispose of where ground or surface waters may be affected.

Methods for Cleaning UpRecover the product by vacuuming or pumping to suitable containers. If

uncontaminated, recover and reuse as product.

6.4 REFERENCE TO OTHER SECTIONS

No additional information available.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Additional Hazards when

Processing

When heated, material emits irritating fumes.

Precautions for Safe

Handling

Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

Hygiene Measures Emergency eye wash fountains should be available in the immediate vicinity of

any potential exposure.

7.2 CONDITIONS FOR SAFE STORAGE

Storage Conditions: Store in a secure, impermeable corrosion resistant container. Keep containers

tightly closed in a dry, cool, and well-ventilated place.

Packaging materials to be

avoided

Metal

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Use local exhaust ventilation if in enclosed spaces.

Occupational Exposure

CaCl₂ airborne exposure:

Guidelines

Time-Weight Average (TWA): 5mg/m³

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Short-Term Exposure Limited (STEL): None

Ceiling Limited (C): None

8.2 EXPOSURE CONTROLS

Appropriate engineering

controls:

Ensure adequate ventilation (especially in confined areas), eye wash stations and

shower recommended.

Personal protective

equipment:

Gloves. Safety glasses. Protective clothing.

Hand Protection: Impermeable protective gloves.

For mist exposure and general handling wear chemical safety glasses. Contact Eye Protection:

lenses should not be worn.

Skin and Body Protection: Emergency eye wash fountains and safety showers should be available in the

> immediate vicinity of any potential exposure. Wear suitable protective clothing. Wash contaminated clothing before reuse. Handle in accordance with good

industrial hygiene and safety practice. Wash clothing frequently.

Footwear: Normal

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne

concentrations of dust are expected to exceed exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Color Clear to brownish Odor Slight acrid odor. Odor threshold No data available

Hq 5.5 - 7.5

Relative Evaporation Rate

(butylacetate=1)

No data available

Melting Point Not applicable

Freezing Point -43ºC

Boiling Point 230-250°F (110-121°C)

Flash Point No data available Not flammable Self-Ignition temperature Decomposition temperature No date available Flammability (solid, gas) Not flammable

Vapor Pressure 9-15mm Hg@25ºC (77ºF)

Relative Vapor Density at

20ºC

No data available

Relative Density 1.32-1.36 @ 15.6ºC Density No data available No data available Solubility Log Pow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available

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Explosive propertiesNone knownOxidizing propertiesNone knownExplosive limitsNot explosive

9.2 OTHER INFORMATION

VOC Content No Data Available

Bulk Density No Data Available

Molecular Formula CaCl₂

SECTION 10. STABILITY AND REACTIVITY

Reactivity Stable at ambient temperature and under normal conditions of use.

Chemical Stability Stable at standard temperature and pressure.

Possibility of Hazardous

Reactions

Hazardous polymerization will not occur.

Conditions to Avoid None known

Incompatible Materials Avoid contact with bromide trifluoride, methyl vinyl ether, 2-furan percarbolic

acid, zinc.

Hazardous Decomposition

Products

Contact with zinc forms flammable hydrogen gas. Formed under fire conditions -

calcium oxide/hydrogen chloride gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Not Classified

Calcium chloride (10043-52-4)			
LD ₅₀ oral rat	1 g/kg		
LD ₅₀ dermal rat	2.6 g/kg		
LC ₅₀ inhalation rat (mg/l)	No data available		
Magnesium chloride (007791-18-6)		
LD ₅₀ oral rat	8 g/kg		
LD ₅₀ dermal rat	No data available		
LC ₅₀ inhalation rat (mg/l)	No data available		
Sodium chloride (7647-14-5)			
LD ₅₀ oral rat	1 g/kg		
LD ₅₀ dermal Rabbit	10 g/kg		
LC ₅₀ inhalation rat (mg/l)	No data available		
Potassium chloride (7747-40-7)			
LD ₅₀ oral rat	2.6 g/kg		
LD ₅₀ dermal rat	No data available		
LC ₅₀ inhalation rat (mg/l)	No data available		

Serious Eye Damage /

Irritation

Can cause serious eye irritation

STOT (Specific Target

Not Classified

Organ Toxicity) - Single

Exposure

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STOT (Specific Target

Organ Toxicity) -Repeated Exposure Not Classified

Aspiration Hazard Can cause irritation Respiratory and/or Skin

Can cause irritation

Sensitization

Not Classified Reproductive Toxicity Germ Cell Mutagenicity Not Classified Carcinogenicity Not Classified

Routes of exposure Absorption through skin and eye

SECTION 12. ECOLOGICAL INFORMATION

Eco toxicity This product is practically harmless to aquatic organisms on an acute basis. However,

this does not exclude the possibility that large or frequent spills can have a harmful or

damaging effect on the environment and should be cleaned up immediately.

Environmental Fate No Data Available

Toxicity LC₅₀ 96hr value > 100 mg/l

Degradation Products Inorganic material not subject to bio degradation

SECTION 13. DISPOSAL CONSIDERATIONS

Sewage Disposal This material may be hazardous to the aquatic environment. Prevent large or frequent

Recommendations spills from entering sewers and waterways.

Waste Disposal Place in an appropriate container and dispose of the contaminated material at a

Recommendations licensed site.

Additional Information Dispose of waste material in accordance with all local, regional, national, and

international regulations.

SECTION 14. TRANSPORT INFORMATION

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

UN Number Not Regulated **Proper Shipping Name** Not Regulated Hazard Class(es) Not Regulated **Packing Group** Not Regulated

SECTION 15. REGULATORY INFORMATION

15.1 US FEDERAL REGULATIONS

Calcium Chloride (10043-52-4) - Ingredients listed on the United States TSCA (Toxic Substances Control Act) Inventory

15.2 CANADIAN REGULATIONS

Calcium Chloride (10043-52-4) - Ingredients listed on the Canadian DSL (Domestic Substances List) Inventory

WHMIS Classification 1988, D2B Toxic Materials



SECTION 16. OTHER INFORMATION

NFPA Health Hazard 2 – Exposure could cause irritation.

NFPA Fire Hazard 0 – Materials that will not burn.

NFPA Reactivity 0 – Normally stable, even under fire exposure conditions, and

are not reactive with water.



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Date of Latest Revision January 14, 2025

Prepared by NSC Minerals Ltd.

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