




# Safety Data Sheet

## Brooks 35 GT

### SECTION 1. IDENTIFICATION

Product Form	Liquid Brine Solution
Substance Name	Brooks 35 GT
Product Code	Calcium
Other Means Of Identification	Calcium Chloride Brine, Dust Suppressant, Road Stabilizer, De-icing Brine, Concrete Conditioner, Tire Ballast, Heavy Water, Industrial Calcium Brine, Drill well Kill Fluid, CaCl <sub>2</sub>
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. 2241 Speers Ave Saskatoon, SK CANADA S7L 5X6 <a href="http://www.nscminerals.ca">www.nscminerals.ca</a> Email: <a href="mailto:nsc@nscminerals.com">nsc@nscminerals.com</a>
Emergency Telephone Number	Call 1-306-934-6477 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	<i>Prevention</i> – Wear eye, face protection. <i>Response</i> – Wash thoroughly after handling. <i>Storage</i> – Store in well ventilated space a safe distance from incompatible materials. <i>Disposal</i> – Dispose of water / residues in accordance with local authority requirements.	
Other Hazards	None Identified.	

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name / Synonyms Corrosion inhibited calcium chloride solution

INGREDIENT NAME	% (W/W)	CAS NO.	GHS-US Classification
Water	60.0-66.0	7732-18-5	None
Calcium Chloride	26.0-28.0	10043-52-4	Skin/Eye Irritation
Magnesium Chloride	3.5-5.5	007791-18-5	None
Sodium Chloride	1.5-2.5	7647-14-5	None
Potassium Chloride	2.0-3.0	7447-40-7	None
Complex Carbohydrates	Variable	N/A	None known

**SECTION 4. FIRST AID MEASURES****4.1 FIRST AID BY ROUTE OF EXPOSURE**

<b>General</b>	If medical advice is needed, have product container or label at hand.
<b>Inhalation</b>	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.
<b>Skin Contact</b>	Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists.
<b>Eye Contact</b>	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.
<b>Ingestion</b>	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.**

<b>Symptoms/injuries:</b>	Irritation to eyes, skin and respiratory tract.
<b>Symptoms/injuries after inhalation:</b>	Overexposure may be irritating to the respiratory system.
<b>Symptoms/injuries after skin contact:</b>	May cause skin irritation.
<b>Symptoms/injuries after eye contact:</b>	May cause eye irritation.
<b>Symptoms/injuries after ingestion:</b>	If a large quantity has been ingested : Abdominal pain; Diarrhea; Nausea; Vomiting; Tingling in hands and feet; Weak pulse; Circulatory disturbances
<b>Chronic Symptoms:</b>	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**

<b>Suitable Extinguishing Media</b>	Not Flammable. Non-Combustible. Isolate area and use extinguishing media appropriate for surrounding fire.
<b>Unsuitable Extinguishing Media</b>	None known.

**5.2 SPECIFIC HAZARDS ARISING FROM PRODUCT**

<b>Fire Hazard</b>	Not considered a fire hazard.
<b>Explosion Hazard</b>	Not considered an explosion hazard.
<b>Reactivity</b>	Stable at ambient temperature and under normal conditions of use.

**5.3 ADVICE FOR FIREFIGHTERS**

<b>Special Fire-Fighting Procedures</b>	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
<b>Protection during fire-fighting</b>	Wear full fire-fighting turn out gear (full Bunker gear) and respiratory protection; self-contained breathing apparatus (SCBA).
<b>Other Information</b>	Run-off from fire firefighting should not be allowed to enter drains, water courses or the soil

## SECTION 6. ACCIDENTAL RELEASE MEASURE

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

<b>General Measures</b>	Do not breathe fumes from fires or vapors from decomposition. Spilled material may cause slippery surfaces, potential for falls.
<b>Protective Equipment for Emergency &amp; Non-Emergency Personnel</b>	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.
<b>Small Spills</b>	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
<b>Large Spills</b>	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

<b>For Containment</b>	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.
<b>Methods for Cleaning Up</b>	Recover 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

<b>Additional Hazards when Processing</b>	When heated, material emits irritating fumes.
<b>Precautions for Safe Handling</b>	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.
<b>Hygiene Measures</b>	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 7.2 CONDITIONS FOR SAFE STORAGE

<b>Storage Conditions:</b>	Store in a secure, impermeable corrosion resistant container. Keep containers tightly closed in a dry, cool, and well-ventilated place.
<b>Packaging materials to be avoided</b>	Metal

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION


### 8.1 CONTROL PARAMETERS

Use local exhaust ventilation if in enclosed spaces.

<b>Occupational Exposure Guidelines</b>	CaCl <sub>2</sub> airborne exposure: <ul style="list-style-type: none"> <li>Time-Weight Average (TWA): 5mg/m<sup>3</sup></li> </ul>
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- Short-Term Exposure Limited (STEL): None
- Ceiling Limited (C): None

## 8.2 EXPOSURE CONTROLS

<b>Appropriate engineering controls:</b>	Ensure adequate ventilation (especially in confined areas), eye wash stations and shower recommended.	
<b>Personal protective equipment:</b>	Gloves. Safety glasses. Protective clothing.	
<b>Hand Protection:</b>	Impermeable protective gloves.	
<b>Eye Protection:</b>	For mist exposure and general handling wear chemical safety glasses. Contact lenses should not be worn.	
<b>Skin and Body Protection:</b>	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.	
<b>Footwear:</b>	Normal	
<b>Respiratory Protection:</b>	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
pH	5.5 – 7.5
Relative Evaporation Rate (butylacetate=1)	No data available
Melting Point	Not applicable
Freezing Point	-50°C
Boiling Point	230-250°F (110-121°C)
Flash Point	No data available
Self-Ignition temperature	Not flammable
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapor Pressure	9-15mm Hg@25°C (77°F)
Relative Vapor Density at 20°C	No data available
Relative Density	1.32-1.36 @ 15.6°C
Density	No data available
Solubility	No data available
Log P <sub>ow</sub>	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

<b>Explosive properties</b>	None known
<b>Oxidizing properties</b>	None known
<b>Explosive limits</b>	Not explosive

**9.2 OTHER INFORMATION**

<b>VOC Content</b>	No Data Available
<b>Bulk Density</b>	No Data Available

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Stable at ambient temperature and under normal conditions of use.
<b>Chemical Stability</b>	Stable at standard temperature and pressure.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	None known
<b>Incompatible Materials</b>	Avoid contact with bromide trifluoride, methyl vinyl ether, 2-furan percarbolic acid, zinc, strong acids, bases, alkalis (organic).
<b>Hazardous Decomposition Products</b>	Contact with zinc forms flammable hydrogen gas. Formed under fire conditions – calcium oxide/hydrogen chloride gas.

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	Not Classified
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<b>Calcium chloride (10043-52-4)</b>	
LD <sub>50</sub> oral rat	1 g/kg
LD <sub>50</sub> dermal rat	2.6 g/kg
LC <sub>50</sub> inhalation rat (mg/l)	No data available
<b>Magnesium chloride (007791-18-6)</b>	
LD <sub>50</sub> oral rat	8 g/kg
LD <sub>50</sub> dermal rat	No data available
LC <sub>50</sub> inhalation rat (mg/l)	No data available
<b>Sodium chloride (7647-14-5)</b>	
LD <sub>50</sub> oral rat	1 g/kg
LD <sub>50</sub> dermal Rabbit	10 g/kg
LC <sub>50</sub> inhalation rat (mg/l)	No data available
<b>Potassium chloride (7747-40-7)</b>	
LD <sub>50</sub> oral rat	2.6 g/kg
LD <sub>50</sub> dermal rat	No data available
LC <sub>50</sub> inhalation rat (mg/l)	No data available

**Serious Eye Damage / Irritation** Can cause serious eye irritation

**STOT (Specific Target Organ Toxicity) - Single Exposure** Not Classified

**STOT (Specific Target** Not Classified

**Organ Toxicity) -  
Repeated Exposure**

<b>Aspiration Hazard</b>	Can cause irritation
<b>Respiratory and/or Skin Sensitization</b>	Can cause irritation
<b>Reproductive Toxicity</b>	Not Classified
<b>Germ Cell Mutagenicity</b>	Not Classified
<b>Carcinogenicity</b>	Not Classified
<b>Routes of exposure</b>	Absorption through skin and eye

**SECTION 12. ECOLOGICAL INFORMATION**

<b>Eco toxicity</b>	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.
<b>Environmental Fate</b>	No Data Available
<b>Toxicity</b>	LC <sub>50</sub> 96hr value > 100 mg/l
<b>Degradation Products</b>	Inorganic material not subject to bio degradation

**SECTION 13. DISPOSAL CONSIDERATIONS**

<b>Sewage Disposal Recommendations</b>	Prevent large or frequent spills from entering sewers and waterways.
<b>Waste Disposal Recommendations</b>	Place in an appropriate container and dispose of the contaminated material at a licensed site.
<b>Additional Information</b>	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

<b>UN Number</b>	Not Regulated
<b>Proper Shipping Name</b>	Not Regulated
<b>Hazard Class(es)</b>	Not Regulated
<b>Packing Group</b>	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**

<b>NFPA Health Hazard</b>	2 – Exposure could cause irritation.
<b>NFPA Fire Hazard</b>	0 – Materials that will not burn.
<b>NFPA Reactivity</b>	0 – Normally stable, even under fire exposure conditions, and are not reactive with water.



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**Prepared by**                     NSC Minerals Ltd.

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