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**1. Product and Company Identification**

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**Product Name** Calcium Chloride Solution, 30-35%  
**CAS #** Mixture  
**Product Use** Industrial applications  
**Supplier information** PVS Benson  
1012 Gore Road  
Freelton, ON L0R1K0 CA  
Phone: 1-800-265-0014  
Emergency Services (24 hours / 7 days ): 1-519-821-0215

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**2. Hazards Identification**

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**Emergency overview** WARNING  
CAUSES EYE IRRITATION.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** May cause severe irritation.

**Skin** May cause irritation.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Eyes.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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**3. Composition/Information on ingredients**

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Components	CAS #	Percent
Calcium chloride	10043-52-4	15 - 40

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**4. First Aid Measures**

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**First aid procedures**

**Eye contact** Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**Notes to physician** Not available

**General advice** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes. Keep out of reach of children.

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**5. Fire-fighting Measures**

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**Flammable properties** Not flammable by WHMIS criteria.

**Extinguishing media**

**Suitable extinguishing media** Treat for surrounding material.

**Unsuitable extinguishing media** Not available

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<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Firefighters should wear a self-contained breathing apparatus.
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Hydrogen chloride. Chlorine. Calcium oxide
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available.
<b>Sensitivity to static discharge</b>	Not available.

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## 6. Accidental release measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

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## 7. Handling and storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid contact with eyes. Avoid the generation of mists. Wash thoroughly after handling.
<b>Storage</b>	Keep out of reach of children. Store in a cool, dry, well-ventilated place away from incompatible materials.

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## 8. Exposure controls/Personal protection

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<b>Exposure limits</b>	Not available
<b>Engineering controls</b>	Use only under good ventilation conditions or with respiratory protection.
<b>Personal protective equipment</b>	
<b>Eye/Face protection</b>	Safety goggles or glasses.
<b>Hand protection</b>	Not normally required when used as directed. Helpful in avoiding unnecessary contact.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and chemical properties

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<b>Appearance</b>	Clear
<b>Colour</b>	Clear to straw coloured
<b>Form</b>	Liquid
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>pH</b>	7 - 9
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	> 110 °C (> 230 °F)
<b>Pour point</b>	Not available.
<b>Evaporation Rate</b>	1 (water=1)

<b>Flash point</b>	None
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapour pressure</b>	7 - 15 mmHg @25°C
<b>Vapour density</b>	1 (water=1)
<b>Specific gravity</b>	1.3 - 1.35
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Solubility (Water)</b>	Complete
<b>Relative density</b>	Not available.
<b>Viscosity</b>	Not available.
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available

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### 10. Stability and reactivity

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<b>Reactivity</b>	None known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Reactive metals. Hot water. Bromine trifluoride. Methyl vinyl ether. Boric oxide. Calcium oxide.
<b>Hazardous decomposition products</b>	May include and are not limited to: Hydrogen chloride. Chlorine. Calcium oxide

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### 11. Toxicological information

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#### Toxicological data

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Calcium chloride (CAS 10043-52-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	2630 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	1940 mg/kg
	Rat	1000 mg/kg

#### Effects of acute exposure

<b>Eye contact</b>	May cause severe irritation.
<b>Skin contact</b>	May cause irritation.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Sensitisation</b>	Non-hazardous by WHMIS criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS criteria.
<b>Name of Toxicologically Synergistic Products</b>	Not available.

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## 12. Ecological information

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**Ecotoxicity** Not available.

### Ecotoxicological data

#### Components

Calcium chloride (CAS 10043-52-4)

Crustacea

EC50

#### Species

Daphnia

#### Test results

52 mg/L, 48 Hours

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#### Aquatic

Fish

LC50

Fathead minnow (*Pimephales promelas*)

3930 - 5360 mg/L, 96 hours

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**Persistence and degradability** Not available.

**Bioaccumulation/accumulation** Not available

**Mobility in environmental media** Not available.

**Environmental effects** Not available.

**Aquatic toxicity** Not available.

**Partition coefficient** Not available.

**Chemical fate information** Not available.

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## 13. Disposal considerations

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**Disposal instructions** Dispose in accordance with all applicable regulations.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

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## 14. Transport information

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### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

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## 15. Regulatory information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Canada Priority Substances List (Second List): Listed substance

Calcium chloride (CAS 10043-52-4)

Listed.

**WHMIS status** Controlled

**WHMIS classification** Class D - Division 2B

### WHMIS labeling



### Inventory Status

#### Country(s) or region

Canada

#### Inventory Name

Domestic Substances List (DSL)

#### On Inventory (Yes/No)\*

Yes

Canada

Non-Domestic Substances List (NDSL)

No

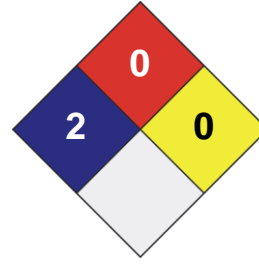
\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/	2
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X



### Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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### Effective date

01-July-2013

### Expiry date

01-July-2016

### Prepared by

Dell Tech Laboratories Ltd. Phone: (519) 858-5021

### Other information

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.