LEXCOR SAFETY DATA SHEET

DATE PREPARED: 01/01/2018

SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME

ROOFSAFE DE-ICER

SUPPLIER NAME AND ADDRESS

Lexsuco 2010 Corporation
3275 Orlando Dr.
Mississauga, ON L4V 1C5
Tel: 905.792.8300 Fax: 905.792.8305

EMERGENCY TELEPHONE NUMBER:

CANUTEC 613-996-6666 (24 hours every day)

Regulatory Information Number:
Tel: 1-877-792-8308

Prepared by: Lexsuco 2010 Corporation

Recommended Use: As an all-purpose de-icer

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Acute Oral Toxicity:	Category 4
Serious Eye Damage/Eye Irritation:	Category 2

GHS Label elements, including precautionary statements
Emergency Overview
Pictograms:

Appearance: White
Physical State: Flake or pellet
Odor: Odorless

Signal Words:
Warning

Hazard Statements:
Harmful if swallowed
Causes serious eye irritations

Precautionary Statements:
General
None

Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye/face protection

Response
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Storage
None

Disposal
Dispose of contents/container to an approved waste disposal plant.

Other hazards
No available data for this section.

Other Information
Wear hand protection
0% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3 – INFORMATION ON INGREDIENTS

Synonyms
Calcium Chloride Dihydrate, Briners Grade, Food Grade Calcium Chloride, Calcium Chloride 94%

Chemical Name	CAS-No	Weight %
Calcium Chloride	10043-52-4	74-100
Water	7732-18-5	0-26
Sodium Chloride	7647-14-5	< 3
Potassium Chloride	7447-40-7	< 3
Magnesium Chloride	7786-30-3	< 0,5

SECTION 4 – FIRST AID MEASURES

Description of First Aid Measures
Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Obtain medical attention if irritation persists.

Skin contact
Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

Inhalation
Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion
IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Protection for First-Aiders
Use personal protective equipment.

Most important symptoms/effects, acute and delayed
Most important symptoms/effects
No information available

Indication of immediate medical attention and special treatment needed, if necessary
Notes to Physician
Treat symptomatically

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media
Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None

Specific Hazards Arising from the Chemical
Avoid generating dust, under certain conditions may cause respiratory irritation. Thermal decomposition can lead to release of irritating and toxic gases and vapors

Explosion Data
Sensitivity to Mechanical Impact
None

Sensitivity to Static Discharge
None

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA
Health Hazard 1 Flammability 0 Instability 1

HMIS
Health Hazard 1 Flammability 0 Physical Hazard 1

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid dust formation.

Environmental precautions
Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up
Methods for Containment
Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

Methods for Cleaning up
Take up mechanically and collect in suitable container for disposal. Use personal protective equipment.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling
Handling
Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing dust. Avoid dust formation. Minimize dust generation and accumulation.

Conditions for safe storage, including any incompatibilities
Storage
Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep in a dry place.

Incompatible Materials
Zinc, Bromine tri-fluoride, Methyl vinyl ether

SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

Control parameters
Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Chloride 10043-52-4	ACGIH – (TLV-TWA) Guideline for nuisance particulate (inhalable particulate): 10 mg/m^3	OSHA (PEL-TWA) – Z-3 Mineral Dusts, Inert or Nuisance dusts, (respirable fraction): 5 mg/m^3	-

Appropriate engineering controls
Engineering Measures
Provide local exhaust ventilations system. When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

Individual protection measures, such as personal protective equipment
Eye/Face Protection
Wear safety glasses with non-flexible side shields or chemical googles

Skin and Body Protection
Hands and Feet:
Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction.

Body:
Wear appropriate protective, impervious clothing.

Respiratory Protection
A respirator is not indicated under normal operating conditions. Use of a NIOSH – approved (N95 or greater) should be based on the presence of nuisance dusts.

Hygiene Measures
When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State	Flake or pellet
Appearance	White
Odor	Odorless
Odor Threshold	N/A

Property	Values	Remarks / Method
pH	Not applicable	None Known
Melting Point/Range	175-770 °C / 350-1420 °F	Estimated value(s)
Boilint Point/Boiling Range	175-1930 °C / 350-3500 °F	Estimated value(s)
Flash Point	Not applicable	None Known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor Pressure	Not applicable	None known
Vapor Density	Not applicable	None known
Specific Gravity	(H_2O = 1) 2.15 @ 25°C / 77°F	None known
Water Solubility	40% @ 20°C (68°F) with evolution of heat	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Auto-ignition Temperature	No data available	None known

Decomposition Temperature	No data available	None known
Viscosity	Not applicable	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
Other information		
VOC Content (%)	Not applicable	

SECTION 10 – STABILITY & REACTIVITY

Reactivity
No data available

Chemical Stability
Stable under recommended storage conditions

Possibility of hazardous reactions
Can only take place at very high temperature producing chlorine gas

Hazardous Polymerization
Hazardous polymerization does not occur

Conditions to avoid
Dust formation

Incompatible materials
Zinc, Bromine tri-fluoride, Methyl vinyl ether

Hazardous decompositions products
Chlorine gas

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract
Eye	Contact Irritating to eyes
Skin	Contact May cause irritation
Ingestion	Harmful if swallowed

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Chloride	= 1000 mg/kg (Rat)	= 2630 mg/kg (Rat)	-
Potassium Chloride	= 2600 mg/mg (Rat)	-	-
Sodium Chloride	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m^3 (Rat) 1h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
May cause irritation to the respiratory system

Delayed and immediate effects and also chronic effects from short and long term exposure

Eye damage/Irritation	Irritating to eyes
Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen
Reproductive Toxicity	No information available
STOT – single exposure	No information available
STOT – repeated exposure	No information available
Chronic Toxicity	Avoid repeated exposure
Aspiration Hazard	No information available

Numerical measures of toxicity – Product

Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 979 mg/kg; Acute toxicity estimate

LD50 Dermal 2630 mg/kg; Acute toxicity estimate

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Calcium Chloride 10043-52-4		LC50 96h = 10650 mg/L static (Lepomis macrochirus)		LC50 48h = 2400 mg/L (Daphnia magna)
Sodium Chloride 7647-14-5		LC50 96h = 5560-6080 mg/L flow-through (Lepomis macrochirus) LC50 96h: = 12946 mg/L static (Lepomis macrochirus) LC50 96h: 6020-7070 mg/L static (pimephales promelas) LC50 96h: = 7050 mg/L semi-static (Pimephales promelas) LC50 96h: 6420-6700 mg/L static (Pimephales promelas) LC50 96h: 4747-7824 mg/L flow-through (Oncorthynchus mykiss)		EC50 48h: = 1000 mg/L (Daphnia magna) EC50 48h: 340.7-469.2 mg/L Static (Daphnia magna)
Potassium Chloride 7447-40-7	EC50 72h: = 2500 mg/L (Desmodesmus subspicatus)	LC50 96h: = 750-1020 mg/L static (Pimephales promelas) LC50 96h: = 1060 mg/L static (Lepomis macrochirus)		EC50 48h: = 825 mg/L (Daphnia magna) EC50 48h: = 83 mg/L Static (Daphnia magna)
Magnesium Chloride 7786-30-3	EC50: 2200 mg/L (Desmodesmus subspicatus 72h)	LC50 96h: 1970-3880 mg/L static (Pimephales promelas) LC50 96h:=4210 mg/L static (Gambusia affinis)	EC50=26140 mg/L 1h EC50=36300 mg/L 30 min. EC50=77200 mg/L 24h	EC50 48h = 140 mg/L (Daphnia magna) EC50 24h = 1400 mg/L (Daphnia magna)

Persistence and Degradability

Product is not biodegradable

Bioaccumulation

Does not bioaccumulate

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to the material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Do not re-use empty containers

SECTION 14 – TRANSPORT INFORMATION

DOT
Not Regulated

TDG
Not Regulated

MEX
Not Regulated

SECTION 15 – REGULATORY INFORMATION

International Inventories
TSCA Complies
DSL Complies

Legend
TSCA – United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of the material.

US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

SECTION 16 – OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Reference: *The information herein is presented in good faith and believed to be correct as of the date hereof. Information is based upon supplier issued material safety data sheets and may be subject to error. If apprised of changes, updated SDS will be promptly issued. Users must make their own determination regarding the suitability of the product for their own purposes prior to use.*

Prepared By: Lexsuco 2010 Corporation