

MA 18P 2206130000000000139
MODIFICATION

State of Maine



Master Agreement

Effective Date: 08/01/22

Expiration Date: 07/31/24

Master Agreement Description: Rock Salt Maine DOT Salt Areas 5-A and 5-B

Buyer Information

William Allen 207-624-7871 ext. NULL WJE.Allen@maine.gov

Issuer Information

Sharon Krechkin 207-624-3038 ext. sharon.krechkin@maine.gov

Requestor Information

Sharon Krechkin 207-624-3038 ext. sharon.krechkin@maine.gov

Agreement Reporting Categories

Reason For Modification: Extend at current pricing

Authorized Departments

17A TRANSPORTATION

Vendor Information

Vendor Line #: 1

Vendor ID

VS0000021503

Vendor Name

Kingsco Transport Ltd

Alias/DBA

Vendor Address Information

77 Wheeler Road

Four Corners, NB E4G 2W5

CA

Vendor Contact Information

Andy Anderson
506-433-8820 ext. 128
banderson@kingscotransport.com

Payment Discount Terms

Discount 1:	0.0000%	1	Days
Discount 2:	0.0000%	2	Days
Discount 3:	0.0000%	3	Days
Discount 4:	0.0000%	4	Days

Commodity Information

Vendor Line #: 1

Vendor Name: Kingsco Transport Ltd

Commodity Line #: 1

Commodity Code: 77545

Commodity Description: Rock Salt Maine DOT Salt Areas 5-A and 5-B

Commodity Specifications:

Commodity Extended Description: Rock Salt Maine DOT Salt Areas 5-A and 5-B

Quantity	UOM	Unit Price
0.00000		0.000000
Delivery Days	Free On Board	
0		
Contract Amount	Service Start Date	Service End Date
0.00		
Catalog Name	Discount	
Salt areas 5A 5B	0.0000 %	
	Discount Start Date	Discount End Date
	08/01/22	07/31/24

Please see authorized signatures displayed on the next page

Each signatory below represents that the person has the requisite authority to enter into this Contract. The parties sign and cause this Contract to be executed.

State of Maine - Department of Administrative and Financial Services

DocuSigned by:
David Morris 7/26/2023
2A644AF5681F482...

Signature Date

David Morris, Acting Chief Procurement Officer

and

Kingsco Transport Ltd

DocuSigned by:
Jim Harris 7/26/2023
47EA7728E7D0414...

Signature Date

Jim Harris, President and CEO

State of Maine – Department of Administrative and Financial Services
Division of Procurement Services
111 Sewall Street, 9 State House Station
Augusta, Maine 04333-0009
Tel. (207) 624-7340

Contract Number
MA 220613*139

EXTENSION OF MASTER AGREEMENT CONTRACT

Commodity Item: Rock Salt Maine DOT Salt Areas 5-A and 5-B

Contractor: Kingsco Transportation Ltd

Mater Agreement Competitive Bid RFQ: 17A 220526-315

Contract Period Extended Through: July 31, 2024

Extended Contract Pricing: Extended at current prices

Dollar value the vendor has recorded that State of Maine has spent on commodities and/or services covered by this contract over the last twelve months: \$2,374,804.38

Agreement to extend Master Agreement 18P – 2206130000000000139 authorized by:

State of Maine – Department of Administrative and Financial Services

DocuSigned by:

David Morris

2A644AF5681F482...

David Morris, Acting Chief Procurement Officer

Date 7/26/2023

and

Kingsco Transportation Ltd

DocuSigned by:

Jim Harris

47EA7728E7D0414...

Jim Harris, President and CEO

Date 7/26/2023

RIDERS

<input checked="" type="checkbox"/>	The following riders are hereby incorporated into this Contract and made part of it by reference: (check all that apply)
<input checked="" type="checkbox"/>	Rider A – MA User Information and/or Specifications
<input checked="" type="checkbox"/>	Rider B – Terms and Conditions
<input type="checkbox"/>	Rider C - Exceptions
<input checked="" type="checkbox"/>	Bid Cover Page and Debarment Form – Appendix A from RFQ

RIDER A
Master Agreement User Information and/or Specifications
MA 220613-139

Commodity: Rock Salt Maine DOT Salt Areas 5-A and 5-B

Master Agreement Competitive Bid RFQ: 17A 220526-315

Contract Period: Through July 31, 2023. The State of Maine with vendor approval can opt to issue up to four (4) one (1) year extensions. **First extension through July 31, 2024**

Vendor Contact Person: The vendor contact person will help consumers place orders, inquire about orders that have not been delivered, all shipping issues, quality issues and any issues pertaining to the Master Agreement (MA) contract. All orders not submitted through a Delivery Order will be sent through the vendor contact person. The vendor contact person for this MA is:

Name: Sabrina Corey **Tel:** 800-995-1188 Ext 121 **Email:** scorey@kingscotransport.com

Prices: Bid Price must be with shipping terms of “Free on Board (FOB) – Destination”. The State intends for this to mean that all goods shall be priced in the bid response to include shipping charges, if any, to the State’s desired location. The “FOB – Destination” shipping term is also intended to mean that the State shall not bear any responsibility for the goods in question until the State takes possession of them at the destination point of delivery. Prices are a flat rate per ton for each DOT Salt Area they can service.

Price and Rate Guarantee Period: All quoted prices and rates must be guaranteed for and must remain firm for minimally the first six months of the contract period. Any approved price or rate adjustments must be held firm for the remainder of the contract period. Price adjustment requests must be made by the selected vendor(s) at least forty-five (45) days prior to the effective date. Requests for price adjustments must include sufficient documentation supporting the request. The price adjustment will not go into effect until the contract amendment has been fully approved by the State of Maine.

Area 5-A	Area 5-B
Delivery Location	Delivery Location
Ashland	Amity
Caribou	Crystal
Fort Fairfield	Houlton
Fort Kent	Linneus**
Madawaska	Macwahoc**
Mars Hill	Medway
Presque Isle	Oakfield
Van Buren	Sherman
Woodland	Springfield
	Topsfield

** Locations associated with contractors that plow state roads for MaineDOT. These contractors may be municipal or private.

**State of Maine
Department of Transportation
Bureau of Maintenance & Operations
ROCK SALT SPECIFICATIONS**

I. GENERAL REQUIREMENTS

VENDOR/CONTRACTOR QUALIFICATIONS: Any vendor that has not been awarded a State of Maine Road Salt Master Agreement in the last 5 seasons will need to furnish the following to prove sufficient infrastructure is in place to meet the high demand during the resulting award period:

- Location of current salt stockpile for testing purposes, in New England preferably. (Shipped samples are not acceptable)
- Three references from current State or municipal customers
- Confirmation that the company has access to space within the state (e.g. confirmation of pier access and storage space from the Port Authority), or nearby location in an adjacent state or Canadian province, where sufficient quantities of salt can be received or sourced, managed and distributed out to the contract locations for this award period.
- Confirmation of available trucking over the contract period from a company that is located either in-state or reasonably local to the source material located in an adjacent state or province.

Any vendor that has not been awarded a State of Maine Road Salt Master Agreement in the last 5 seasons and does not, or cannot, furnish all the above will be disqualified.

ESTIMATED USAGE:

The estimated salt usage for the upcoming winter season is in attachment 2022 DOT Salt Quantities. The quantities listed are based upon typical past usage and the amount of material that is currently stockpiled at each location. These estimated quantities reflect a reasonable approximation of the salt required for an “average” winter. They do not represent a minimum or a maximum amount that will be ordered. However, in aggregate, these quantities are expected to be within 25% of the total indicated, either above or below, depending upon the winter.

AUDITS AND ACCOUNTING:

The successful bidder shall allow representatives of the State of Maine to have complete access to all records for the purpose of determining compliance with the terms and conditions of this bid invitation and in determining the award and for monitoring any resulting contract.

At intervals during the contract term, and prior to the termination of the contract, the successful bidder may be required to provide a complete and accurate accounting of all products and quantities ordered by each agency and institution and by political subdivisions and authorized non-profit organizations.

INVOICING:

Separate invoices are required for each order number. Invoices shall include the stockpile location the order is taken from. Each load is to be listed separately with the date delivered on the invoice. Matching delivery slip numbers for each order should be included on the invoice. Invoices received with the delivery slip numbers will be processed prior to invoices without delivery slip numbers.

MEASUREMENTS:

The term ‘Ton’ shall mean the short ton consisting of 2,000 pounds avoirdupois. Each truck used to haul salt shall bear a plainly legible identification mark, and a tare weight shall be taken prior to each load.

WEIGH SLIPS:

Each truck delivery shall be accompanied by a weigh slip, which shall be left with an employee who works at the delivery point of load. The employee will sign a copy of the weigh slip to acknowledge the receipt of the load.

Contractor shall provide numbered weigh slips, which show the following information:

- Name and address of the contractor
- Name and address of the owner of the scales
- Location of the scales
- Consignee and destination
- Date of delivery

- Order number
- Gross, tare and net weights
- Signature of weigher
- Current vehicle registration number and/or other legible identification mark and signature of vehicle operator
- Space for signature of the department employee accepting the shipment

The State of Maine reserves the right to weigh any truck at a designated location before or after delivery to any particular storage site.

STORAGE REQUIREMENTS

All salt distribution piles shall be covered to prevent the salt from becoming excessively damp. Salt distribution piles shall be covered, or stored within a building, within five (5) days of being established.

DELIVERY REQUIREMENTS:

The sodium chloride shall arrive at the delivery location in a free flowing and useable condition. All truck deliveries shall be dumped at a specific location, either inside or immediately outside a storage building, as directed by the on-site personnel.

Deliveries of trucked salt shall be protected in transit by tight, waterproof coverings to avoid spillage and to prevent additional accumulation of moisture during transit to ensure the least possible moisture content upon delivery. Torn, ripped or permeable load covers or excess water running out of the delivery truck are unacceptable conditions and are likely to result in rejection of the load (ref. "Delivery Rejection" section below).

The State of Maine requires that all deliveries of salt be made in complete compliance with existing state, national, provincial laws or regulations. **Violation of any laws or regulations, including but not limited to weight limitations, shall be considered as grounds for disqualification of the supplier, hauler or both.**

DELIVERY:

Orders for salt shall be delivered within **five (5) business days** of order notification to the contractor. Contractor will make every effort to have delivery vehicle arrival times spread out so as not to exceed the capacity of the equipment used to pile the salt at the delivery location. Should several vehicles arrive at the delivery point at the same time, some vehicles may be delayed before being allowed to dump their load.

NOTICE OF DELIVERY:

The contractor must provide a minimum twenty-four (24) hour notice to each office prior to any delivery. Notice must include scheduled delivery date, estimated time and quantity of salt to be delivered

DELIVERY TIMES:

Truck deliveries will be accepted only during the hours of 6:00 am to 4:00 pm Monday through Friday, unless otherwise arranged prior to each delivery. Delivery times outside of

the normal working hours noted above may require the contractor to reimburse for the actual cost of personnel brought in to receive the delivery.

STATE HOLIDAYS:

Deliveries will not be arranged or accepted on any official State of Maine holiday or shut-down day unless specifically requested and approved. A listing of official holidays and shut-down days will be provided upon request. (Shut down days normally exist on a single work day either immediately prior to or following an official holiday.)

FAILURE TO DELIVER:

If a contractor fails to furnish salt in accordance with all requirements, including delivery through the end of the contract period, the State of Maine may re-purchase the same item from another source, without competitive bidding, and the original contractor may be liable to the State of Maine for any excess cost. If non-delivery occurs more than twice the State of Maine will have the option to terminate the contract without penalty. Experience from past winters has shown that, during periods of heavy storm activity, the ability to provide a trucking capacity of at least twelve (12) 30-ton deliveries, per day, per region, will be necessary at times. Contractors that are unable to reliably provide salt deliveries may become ineligible to receive future contract awards.

INSPECTIONS:

The State of Maine shall be provided free entry and access at the Contractor's storage areas for sampling. It is anticipated that determination for initial compliance will be made from samples obtained from the supplier's storage areas or from rail cars if no storage areas are provided within the state. Shipments to the delivery locations may be randomly sampled for compliance. Said samples shall be representative of all salt delivered to a location on that day. Penalties, if any, will be assessed against the accumulated and mixed samples of each day's delivery to each location. Details of penalties and percentages are outlined in Section III, *Penalties and Price Adjustments*. Laboratory results will be provided to the Contractor when penalties are assessed.

Contractor is strongly encouraged to sample and test their product prior to shipping product to the buyer so that any necessary corrective action may be taken to assure conformity to specifications.

DELIVERY REJECTION:

The State of Maine reserves the right to reject or refuse any salt or deliveries which do not conform to these specifications for screen size, chemical quality or moisture content, or which are not delivered in good condition. Shipments that are rejected will be returned to the Contractor at no cost to the state. Contractor shall promptly replace all deliveries of salt that are rejected.

II. SPECIFICATIONS FOR MINED ROCK SALT

CHEMICAL COMPOSITION:

The sodium chloride shall conform to a chemical composition of a minimum of 95%. Variations of less than 95% but above 93% will result in acceptance at reduced payment as provided in Section III, *Penalties and Price Adjustments*.

SALT GRADATION:

Rock salt shall conform to the following particle size distribution specifications as determined by laboratory sieves:

- Passing a 1/2" sieve (12.50mm) 100%
- Passing a 3/8" sieve (9.50mm) 95% - 100%
- Passing a No. 4 sieve (4.75mm) 20% - 80%
- Passing a No 8 sieve (2.36mm) 10% - 50%
- Passing a No 30 sieve (0.60mm) 0% - 10%

Because of restrictions used to calibrate salt on Department sanders, the 1/2" gradation requirement is critical. The contractor will be required to re-screen the sodium chloride for continued oversize deliveries.

MOISTURE:

Salt shall be in a free-flowing condition when received at the delivery location with a moisture content not to exceed 1%.

ANTI-CAKING ADDITIVE:

Salt shall be loose and free of lumps and shall contain not less than 20ppm of pure anti-caking agent. All bidders are required to identify type of anti-cake additive used in their product. Bidders are required to submit the appropriate Material Safety Data Sheets (MSDS) and Product Information/Data Sheets to the State of Maine at the time of bid response.

Please State Anti-Cake Additive : _____

III. PENALTIES AND PRICE ADJUSTMENTS

CHLORIDES:

Penalties will be assessed against the accumulated and mixed samples of each day's deliveries to each location for salt that does not meet the chemical composition of total chlorides as specified in Table 1.

TABLE 1 – Percent Sodium Chloride

Percent (%) of Sodium Chloride	Percent (%) of Payment of Unit Bid Price
95.0 % - 100%	100%
94.0 % – 94.9 %	96%
93.0 % - 93.9 %	92%
Below 93.0 %	Not Acceptable

MOISTURE:

Delivered rock salt shall not normally exceed one percent (1.0 %). Salt which exceeds the moisture content as specified will be subject to penalties according to Table 2.

TABLE 2 – Moisture Content for Rock Salt

Moisture Content	Percent (%) of Payment of Unit Bid Price
0 – 1.0 %	100%
1.1 – 2.0 %	98%
Above 2.0 %	Normally rejected. If accepted, see ** below

** Rock salt with a moisture content in excess of 2% will normally be rejected. If the state elects to accept salt with a moisture content exceeding 2%, the price reduction shall be calculated as follows:

Percentage (%) of payment of unit bid price = $100 - 3.5 (\text{moisture content in } \% - 1)$

Example: *Rock salt with a moisture content of 3.0 %*
 % of Payment of unit bid price = $100 - 3.5 (3.0-1.0)$
 % of Payment of unit bid price = 93.0 %

GRADATION:

A penalty may be assessed for gradations that do not fall within the ranges specified in Section II, *Salt Gradation*. At the Department's discretion, the bid price of the salt may be reduced by one (1) percent for each percent by which gradation falls outside of the allowable range. The Department may elect to waive this penalty for any given lab test if it determines that a limited amount of segregation may have occurred in the pile and operational impacts are minimal.

CONTAMINATION:

Each load of salt having contaminants in it (e.g. trash, pavement chunks, tarps, or other foreign materials) shall be subject to rejection at no cost to MaineDOT. If MaineDOT elects to keep the delivery, a penalty of 5% will be applied to each load, in addition to any other applicable penalties that may be in effect.

ASSESSMENT OF PENALTIES:

Bi-weekly, weekly, and random sampling and testing of rock salt will be performed by MaineDOT. Failing test reports will be used in conjunction with information from the personnel receiving salt deliveries to identify and calculate reduced payments when penalties and price adjustments are to be applied. Any reduction of payment caused by the categories within this section shall occur at the time of payment and will not be applied after payment has been made, unless application of the penalty is specifically being withheld pending resolution of a dispute. Penalties shall continue until such time that a passing test is obtained. When onsite inspections and tests indicate that the salt being supplied is an inferior product, the Contractor will be notified that the salt is unacceptable.

If acceptable rock salt is not provided within five (5) working days (or as otherwise authorized by the MaineDOT/ Municipalities/Political Subdivisions), then the MaineDOT/Municipalities/Political Subdivisions may pursue such actions as described in Section I, *Failure to Deliver*.

EXCESSIVE PENALTIES:

Contractors that are unable to reliably provide salt meeting the specifications set forth in Section II, without penalties, may become ineligible to receive future contract awards.

IV. SAMPLING AND TESTING

SAMPLING:

Each sample submitted for testing shall consist of a minimum of three increments selected at random from the material. Each increment shall be at least a pound in weight and not include the top inch of stored material. Every attempt shall be made to insure a composite sample representative of the pile. Samples for chemical composition, gradation and anti-caking may also be obtained at the time of delivery to the purchaser's delivery destination.

METHOD OF TESTING:

1. Chemical composition testing for sodium chloride shall conform to the rapid method of testing given in Appendix A1 of AASHTO M-143-86. A second method of rapid analysis could be the use of Gran's plot titration method developed by Orion Research Incorporated. In case that the coarse salt sample is used 100.00 g sample is taken and dissolved in a 2-liter volumetric flask quantitatively. An aliquot of 5.00 ml or 2.00 ml of this solution is then pipetted out to the titrated according to either of these two methods.

If controversy occurs, analysis shall be made in accordance with the method specified for "Salt" in the current "Official Methods of Analysis for the Association of Official Agricultural Chemists".

2. Particle size analysis shall consist of using sieves with square openings mounted on substantial frames or interlocked in a manner as to prevent loss of material during sieving. Woven wire cloth shall conform to AASHTO M92. Gradation analysis shall be made on oven dried material and the sample shall weigh after drying at least 500 grams. In no case shall the fraction retained on any sieve at the completion of the sieving operation weigh more than four grams per square inch of sieving surface (this is 200 grams for 8 inch diameter round sieves).

If sieving is completed by hand, the procedure will include shaking with lateral and vertical motion with occasional jarring action so as to keep the material moving continuously over the surfaces of the sieves for a time of not less than three minutes. The balance or scale shall be sensitive to within 0.2% of the weight of the sample to be tested.

3. Moisture content shall be determined by a method of weighing before and after oven drying at 110° + 5° C (230° + 9° F) for a minimum of four hours.

4. The test for anti-caking material shall be made following the attached method for colorimetric determination of YPS or YPP treated salt. For an anti-caking material other than YPS or YPP the successful bidder shall indicate the chemical nature of the material and shall furnish a laboratory procedure for determining the amount of anti-caking material to the Maine Department of Transportation, Testing Engineer, P.O. Box 1208, Bangor, Maine 04401 within 30 days of the award of the bid by the Bureau of Purchases.

condition. Shipments that are rejected will be returned to the Contractor at no cost to the state. Contractor shall promptly replace all deliveries of salt that are rejected.

II. SPECIFICATIONS FOR MINED ROCK SALT

CHEMICAL COMPOSITION:

The sodium chloride shall conform to a chemical composition of a minimum of 95%. Variations of less than 95% but above 93% will result in acceptance at reduced payment as provided in Section III, *Penalties and Price Adjustments*.

SALT GRADATION:

Rock salt shall conform to the following particle size distribution specifications as determined by laboratory sieves:

- Passing a 1/2" sieve (12.50mm) 100%
- Passing a 3/8" sieve (9.50mm) 95% - 100%
- Passing a No. 4 sieve (4.75mm) 20% - 80%
- Passing a No 8 sieve (2.36mm) 10% - 50%
- Passing a No 30 sieve (0.60mm) 0% - 10%

Because of restrictions used to calibrate salt on Department sanders, the 1/2" gradation requirement is critical. The contractor will be required to re-screen the sodium chloride for continued oversize deliveries.

MOISTURE:

Salt shall be in a free-flowing condition when received at the delivery location with a moisture content not to exceed 1%.

ANTI-CAKING ADDITIVE:

Salt shall be loose and free of lumps and shall contain not less than 20ppm of pure anti-caking agent. All bidders are required to identify type of anti-cake additive used in their product. Bidders are required to submit the appropriate Material Safety Data Sheets (MSDS) and Product Information/Data Sheets to the State of Maine at the time of bid response.

Please State Anti-Cake Additive : Sodium Ferrocyanide.

III. PENALTIES AND PRICE ADJUSTMENTS

CHLORIDES:

Penalties will be assessed against the accumulated and mixed samples of each day's deliveries to each location for salt that does not meet the chemical composition of total chlorides as specified in Table 1.

TABLE 1 – Percent Sodium Chloride

Percent (%) of Sodium Chloride	Percent (%) of Payment of Unit Bid Price
95.0 % - 100%	100% ✓
94.0 % - 94.9 %	96%

**Industrial Product Data Sheet**Effective Date: **March 2, 2022**Product Code: **SALT**Location: **New Brunswick**SDS: **105****Rock Salt (Crushed) – Deicing Salt****Industrial Grade****CHEMICAL ANALYSIS**

Component	Units	Minimum	Maximum	Typical
Sodium Chloride	wt. % NaCl	94.5		98.2
Calcium	wt. % Ca			0.48
Magnesium	wt. % Mg			< 0.005
Sodium	wt. % Na			38.3
Moisture	wt. % H ₂ O			0.1
Sulfate	wt. % SO ₄			1.2
Water Insoluble Matter	%			< 1.5
Anti-Caking Additive	ppm	50		50

PHYSICAL ANALYSIS

Component	Units	Typical
Bulk Density	g/cm ³	1.22
	lb/ft ³	76.2

PARTICLE SIZE DISTRIBUTION

	Tyler Mesh	US Mesh	mm Mesh	Typical wt. %
Passing through . . .			12.5	99.5
			9.50	94.5
	2.5		8.00	88.0
	5	5	4.00	53.5
	6	6	3.35	46.0
	8	8	2.36	31.0
	10	12	1.70	22.5
	28	30	0.600	7.5

Refer to a Safety Data Sheet for more information

Typical results are based on composite analyses of samples. Grab samples or individual shipment samples may fall outside of the typical range.

To the best of Nutrien's knowledge, the information contained herein is accurate and reliable as of the date compiled; however, Nutrien makes no representation, warranty or guarantee as to the information's accuracy, reliability, completeness or timeliness. It is the user's responsibility to determine the suitability and completeness of such information for the user's own uses or purposes. Nutrien does not accept any liability for any loss or damage that may occur from any use of this information.

Product is supplied by the following subsidiary of Nutrien Ltd.:

PCS Sales (Canada) Inc. • Suite 1700, 211 19th Street East • Saskatoon, SK • S7K 5R6 • 1-800-524-0132



SAFETY DATA SHEET

ROCK SALT (CRUSHED) - DEICING SALT

Section 1. Identification

Product identifier : ROCK SALT (CRUSHED) - DEICING SALT
Product code : SALT
SDS # : 105
Other means of identification : Road salt. Deicing salt.
Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Industrial use.
Uses advised against
Not available.

Supplier's details : PCS Sales (USA), Inc. (A Subsidiary of Nutrien Ltd.)
 Suite 150
 500 Lake Cook Road
 Deerfield, IL 60015
 United States

PCS Sales (Canada), Inc. (A Subsidiary of Nutrien Ltd.)
 Suite 500
 122 - 1st Avenue South
 Saskatoon SK S7K 7G3
 Canada

Telephone no.: : 1-800-524-0132
Email : sds@nutrien.com

Emergency telephone number (with hours of operation) : Nutrien North American
 24 HOUR EMERGENCY TELEPHONE NUMBERS:

English:
 Transportation Emergencies: 1-800-792-8311
 Medical Emergencies: 1-303-389-1653

French or Spanish:
 Transportation or Medical Emergencies: 1-303-389-1654

Section 2. Hazard identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Hazard pictograms :

ROCK SALT (CRUSHED) - DEICING SALT

Section 2. Hazard identification

	Not applicable.
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
<u>Precautionary statements</u>	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Road salt. Deicing salt.

Ingredient name	% (w/w)	CAS number
sodium chloride	>98.5	7647-14-5
calcium sulfate	<1.5	7778-18-9

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: May cause irritation due to mechanical action.
Inhalation	: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
Skin contact	: May cause irritation due to mechanical action.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

ROCK SALT (CRUSHED) - DEICING SALT

Section 4. First-aid measures

- Eye contact** : Adverse symptoms may include the following:
irritation
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
redness
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. Decontamination measures may be necessary. Personnel and equipment must be checked and decontaminated prior to leaving the area.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
sulfur oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contain and collect the water used to fight the fire for later treatment and disposal.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

ROCK SALT (CRUSHED) - DEICING SALT

Section 6. Accidental release measures

Methods and materials for containment and cleaning up

- Small spill** : Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Recover the material and use it for the intended purpose.
or
Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle or process, if possible.
or
Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. May form steep piles that can collapse without warning when transported or stored in bulk. This may damage equipment and endanger workers. The risk of cliffing and sudden collapse increases if product is loaded or stored when hot or in high humidity conditions. Avoid forming steep slopes when removing product. If product has caked, cliffed, or has adhered to the storage or transport container, stay out of the potential engulfment zone in case the material collapses. Do not enter bins, railcars or trucks without conducting a risk assessment and following all confined space entry requirements. Ensure that consideration is given to fall protection and mobile equipment securement if applicable. Carefully loosen the set product from outside the container using mechanical vibration, sledge hammers, or other devices.

Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse. Use caution when opening truck or railcar doors as product may have shifted during transport.

Must be stored in a dry location. Absorbs moisture on long-term storage under high humidity conditions. Store away from incompatible materials (see Section 10). When product is stored in sealable containers, keep container tightly closed and sealed until ready for use. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
sodium chloride	<p>OSHA PEL (United States). TWA: 5 mg/m³, (Particulates not otherwise regulated (PNOR)) 8 hours. Form: Respirable fraction TWA: 15 mg/m³, (Particulates not otherwise regulated (PNOR)) 8 hours. Form: Total dust</p> <p>CA Quebec Provincial. (Canada). TWA: 10 mg/m³, (Particulates not otherwise regulated (PNOR)) 8 hours. Form: Total</p>
calcium sulfate	<p>ACGIH TLV (United States, 3/2020). TWA: 10 mg/m³ 8 hours. Form: Inhalable fraction</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> <p>NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Respirable fraction TWA: 10 mg/m³ 10 hours. Form: Total</p> <p>OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> <p>British Columbia Provincial: (Canada, 1/2020). TWA: 10 mg/m³ 8 hours. Form: Inhalable</p> <p>CA Alberta Provincial: (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 hours.</p> <p>CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m³ 8 hours. Form: Inhalable particulate matter.</p> <p>CA Quebec Provincial. (Canada, 7/2019). TWAEV: 5 mg/m³ 8 hours. Form: Respirable dust. TWAEV: 10 mg/m³ 8 hours. Form: Total dust.</p> <p>Saskatchewan Provincial: (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.</p>

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Ensure proper process control to avoid discharge (temperature, pressure concentration, pH value, time).

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Solid. [Crystalline granules.]
- Color** : White.
- Odor** : Odorless.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : 801°C (1473.8°F)
- Boiling point, initial boiling point, and boiling range** : 1430.85°C (2607.5°F)
- Flash point** : Not applicable.
- Evaporation rate** : Not available.
- Flammability** : Not applicable.
- Lower and upper explosion limit/flammability limit** : Not applicable.
- Vapor pressure** : Not available.
- Relative vapor density** : Not applicable.
- Relative density** : 2.14
- Density** : 2.165 g/cm³
- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Solubility in water** : 317 g/l
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.

ROCK SALT (CRUSHED) - DEICING SALT

Section 9. Physical and chemical properties and safety characteristics

Decomposition temperature : Not available.

Viscosity : Not applicable.

Particle characteristics

Median particle size : Not available.

Section 10. Stability and reactivity

Reactivity : May be corrosive to metals.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Absorbs moisture from the air. Store in a dry place.

Incompatible materials : May be corrosive to metals. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Conclusion/Summary : Low acute toxicity.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin : May cause slight transient irritation.

Eyes : May cause mild eye irritation.

Respiratory : May cause irritation due to mechanical action.

Sensitization

Not available.

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Respiratory : No known significant effects or critical hazards.

Mutagenicity

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Section 11. Toxicological information

Not available.

Conclusion/Summary : No known significant effects or critical hazards.**Carcinogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride	Negative - Oral - TDLo	Rat - Male	-	-

Reproductive toxicity

Not available.

Conclusion/Summary : No known significant effects or critical hazards.**Teratogenicity**

Not available.

Conclusion/Summary : No known significant effects or critical hazards.**Specific target organ toxicity (single exposure)**

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.**Potential acute health effects**

- Eye contact** : May cause irritation due to mechanical action.
- Inhalation** : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
- Skin contact** : May cause irritation due to mechanical action.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
irritation
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
redness
- Ingestion** : No specific data.

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

- Potential immediate effects** : See above.
- Potential delayed effects** : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : See above.

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Section 11. Toxicological information

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
sodium chloride	Chronic LOEL Oral	Rat - Male	2533 mg/kg	2 years

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
sodium chloride	3000	N/A	N/A	N/A	N/A

Other information : Not available.

Section 12. Ecological information

Toxicity

Not available.

Conclusion/Summary : May be harmful to the environment if released in large quantities.

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
sodium chloride	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

	TDG	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Marine pollutant	No.	No.	No.	No.

Additional information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information**Canadian lists**

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : **Japan inventory (CSCL):** All components are listed or exempted.
Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

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Section 15. Regulatory information

Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.
U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112(b) : Not listed

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : The following components are listed: CALCIUM SULFATE; GYPSUM; PLASTER OF PARIS

New York : None of the components are listed.

New Jersey : The following components are listed: CALCIUM SULFATE; SULFURIC ACID, CALCIUM SALT (1:1)

Pennsylvania : The following components are listed: CALCIUM SULFATE

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

Section 16. Other information

History

Date of issue/Date of revision : 2/16/2022

Date of previous issue : 3/30/2021

Version : 2

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Section 16. Other information

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HPR = Hazardous Products Regulations
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

Procedure used to derive the classification

Not classified.

☑ Indicates information that has changed from previously issued version.

Notice to reader

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

DISCLAIMER AND LIMITATION OF LIABILITY

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FICHE DE DONNÉES DE SÉCURITÉ

ROCK SALT (CRUSHED) - DEICING SALT

Section 1. Identification

Identificateur de produit : ROCK SALT (CRUSHED) - DEICING SALT
Code du produit : SALT
n° SDS : 105
Autres moyens d'identification : Sel de voirie. Sel de déglçage.
Type de produit : Solide.

Utilisations pertinentes identifiées de la substance ou du mélange et utilisations non recommandées

Utilisations identifiées

Usage industriel.

Utilisations non recommandées

Non disponible.

Données relatives au fournisseur : PCS Sales (USA), Inc. (A Subsidiary of Nutrien Ltd.)
 Suite 150
 500 Lake Cook Road
 Deerfield, IL 60015
 United States

 PCS Sales (Canada), Inc. (A Subsidiary of Nutrien Ltd.)
 Suite 500
 122 - 1st Avenue South
 Saskatoon SK S7K 7G3
 Canada

No de téléphone: : 1-800-524-0132
Courriel : sds@nutrien.com

Numéro de téléphone à composer en cas d'urgence (indiquer les heures de service) : Nutrien 24 hr numéros de téléphone d'urgence:
 Anglais:
 Transport: 1-800-792-8311
 Médical: 1-303-389-1653

Français ou Espagnol:
 Transport ou Médical: 1-303-389-1654

Section 2. Identification des dangers

Statut OSHA/HCS : Alors que ce produit n'est pas considéré dangereux selon la norme OSHA sur la communication de renseignements à l'égard des matières dangereuses (29 CFR 1910.1200), cette fiche signalétique contient des informations utiles critiques pour une manipulation prudente et une utilisation convenable du produit. Cette fiche signalétique devrait être conservée et mise à la disposition des employés et tout autre utilisateur du produit.

Classement de la substance ou du mélange : Non classé.

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Section 2. Identification des dangers

Éléments d'étiquetage SGH

- Pictogrammes de danger** : Non applicable.
- Mention d'avertissement** : Pas de mention de danger.
- Mentions de danger** : Aucun effet important ou danger critique connu.
- Conseils de prudence**
- Généralités** : Lire l'étiquette avant utilisation. Tenir hors de portée des enfants. En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette.
- Prévention** : Non applicable.
- Intervention** : Non applicable.
- Stockage** : Non applicable.
- Élimination** : Non applicable.
- Dangers non classés ailleurs** : La manipulation et/ou la transformation de cette substance peuvent éventuellement générer une poussière capable de provoquer une irritation mécanique des yeux, de la peau, du nez et de la gorge.

Section 3. Composition/information sur les ingrédients

- Substance/préparation** : Mélange
- Autres moyens d'identification** : Sel de voirie. Sel de déglçage.

Nom des ingrédients	% (p/p)	Numéro CAS
chlorure de sodium	>98.5	7647-14-5
sulfate de calcium	<1.5	7778-18-9

Le produit ne contient aucun autre ingrédient exigeant une déclaration dans cette section, selon les connaissances actuelles du fournisseur et les concentrations de classification en vigueur.

Les limites d'exposition professionnelle, quand elles sont disponibles, sont énumérées à la section 8.

Section 4. Premiers soins

Description des premiers soins nécessaires

- Contact avec les yeux** : Rincer immédiatement les yeux à grande eau, en soulevant de temps en temps les paupières supérieures et inférieures. Enlever les lentilles de contact si usé et si elles peuvent être facilement enlevés. Continuer à rincer pendant au moins 15 minutes. En cas d'irritation, consulter un médecin.
- Inhalation** : Transporter la personne à l'extérieur et la maintenir dans une position où elle peut confortablement respirer. Si la personne exposée ne respire pas, le personnel formé doit donner la respiration artificielle ou de l'oxygène. Consulter un médecin si des symptômes se développent.
- Contact avec la peau** : Rincer la peau contaminée avec beaucoup d'eau. Retirer les vêtements et les chaussures contaminés. Consulter un médecin si des symptômes se développent.
- Ingestion** : Laver la bouche avec de l'eau. En cas d'ingestion de la matière et si la personne exposée est consciente, lui donner de petites quantités d'eau à boire. Ne pas faire vomir sauf indication contraire émanant du personnel médical. Consulter un médecin si des symptômes se développent.

Symptômes et effets les plus importants, qu'ils soient aigus ou retardés

Effets aigus potentiels sur la santé

- Contact avec les yeux** : Peut causer l'irritation due à action mécanique.

ROCK SALT (CRUSHED) - DEICING SALT

Section 4. Premiers soins

- Inhalation** : La manipulation et/ou la transformation de cette substance peuvent éventuellement générer une poussière capable de provoquer une irritation mécanique des yeux, de la peau, du nez et de la gorge.
- Contact avec la peau** : Peut causer l'irritation dûe à action mécanique.
- Ingestion** : Aucun effet important ou danger critique connu.

Signes/symptômes de surexposition

- Contact avec les yeux** : Les symptômes néfastes peuvent éventuellement comprendre ce qui suit:
irritation
rougeur
- Inhalation** : Aucune donnée spécifique.
- Contact avec la peau** : Les symptômes néfastes peuvent éventuellement comprendre ce qui suit:
rougeur
- Ingestion** : Aucune donnée spécifique.

Mention de la nécessité d'une prise en charge médicale immédiate ou d'un traitement spécial, si nécessaire

- Note au médecin traitant** : Traitement symptomatique requis. Contactez le spécialiste en traitement de poison immédiatement si de grandes quantités ont été ingérées ou inhalées.
- Traitements particuliers** : Pas de traitement particulier.
- Protection des sauveteurs** : Ne prendre aucune mesure impliquant un risque personnel ou en l'absence de formation adéquate. Des mesures de décontamination peuvent être nécessaires. Le personnel et le matériel doivent être vérifiés et décontaminés avant de quitter la zone.

Voir Information toxicologique (section 11)

Section 5. Mesures à prendre en cas d'incendie

Moyens d'extinction

- Agents extincteurs appropriés** : Employer un agent extincteur qui convient aux feux environnants.
- Agents extincteurs inappropriés** : Aucun connu.

Dangers spécifiques du produit : Aucun risque spécifique d'incendie ou d'explosion.

Produit de décomposition thermique dangereux : Les produits de décomposition peuvent éventuellement comprendre les substances suivantes:
oxydes de soufre

Mesures spéciales de protection pour les pompiers : En présence d'incendie, circonscrire rapidement le site en évacuant toute personne se trouvant près des lieux de l'accident. Ne prendre aucune mesure impliquant un risque personnel ou en l'absence de formation adéquate. Contenez et recueillez l'eau combattant le feu pour traitement plus en retard et disposition.

Équipement de protection spécial pour le personnel préposé à la lutte contre le feu : Il est impératif que les pompiers portent un équipement de protection adéquat, ainsi qu'un appareil respiratoire autonome (ARA) équipé d'un masque couvre-visage à pression positive.

ROCK SALT (CRUSHED) - DEICING SALT

Section 6. Mesures à prendre en cas de déversement accidentel

Précautions individuelles, équipements de protection et mesures d'urgence

- Pour le personnel non affecté aux urgences** : Ne prendre aucune mesure impliquant un risque personnel ou en l'absence de formation adéquate. Évacuer les environs. Empêcher l'accès aux personnes gênantes ou non protégées. Ne pas toucher ni marcher dans le produit répandu. Porter un équipement de protection individuelle approprié.
- Intervenants en cas d'urgence** : Si des vêtements spécialisés sont requis pour traiter un déversement, prendre note de tout renseignement donné à la Section 8 sur les matériaux appropriés ou non. Consultez également les renseignements sous « Pour le personnel non affecté aux urgences ».
- Précautions environnementales** : Évitez la dispersion des matériaux déversés, ainsi que leur écoulement et tout contact avec le sol, les voies navigables, les drains et les égouts. Avertir les autorités compétentes si le produit a engendré des effets néfastes (égouts, voies navigables, sol ou air).

Méthodes et matériaux pour le confinement et le nettoyage

- Petit déversement** : Revêtir un équipement de protection individuelle approprié (voir Section 8). Écarter les conteneurs de la zone de déversement. Récupérez le matériel et l'utiliser aux fins prévues.
ou
Placer le produit déversé dans un contenant à déchets désigné et étiqueté. Éliminer par l'intermédiaire d'une entreprise spécialisée autorisée de collecte des déchets.
- Grand déversement** : Revêtir un équipement de protection individuelle approprié (voir Section 8). Écarter les conteneurs de la zone de déversement. Empêcher la pénétration dans les égouts, les cours d'eau, les sous-sol ou les zones confinées. Utiliser l'équipement approprié de placer la substance déversée dans un récipient pour une réutilisation ou d'élimination. Recyclez dans le procédé, si possible.
ou
Éliminer par l'intermédiaire d'une entreprise spécialisée autorisée de collecte des déchets. Nota : Voir Section 1 pour de l'information relative aux urgences et voir Section 13 pour l'élimination des déchets.

Section 7. Manutention et stockage

Précautions relatives à la sûreté en matière de manutention

- Mesures de protection** : Revêtir un équipement de protection individuelle approprié (voir Section 8).
- Conseils sur l'hygiène générale au travail** : Il est interdit de manger, boire ou fumer dans les endroits où ce produit est manipulé, entreposé ou traité. Les personnes travaillant avec ce produit devraient se laver les mains et la figure avant de manger, boire ou fumer. Retirer les vêtements et l'équipement de protection contaminés avant de pénétrer dans des aires de repas. Consulter également la Section 8 pour d'autres renseignements sur les mesures d'hygiène.
- Conditions de sûreté en matière de stockage, y compris les incompatibilités** : Entreposer conformément à la réglementation locale. Entreposer dans le contenant original à l'abri de la lumière solaire, dans un endroit sec, frais et bien ventilé, à l'écart des substances incompatibles (voir la Section 10), de la nourriture et de la boisson. Garder le récipient hermétiquement fermé lorsque le produit n'est pas utilisé. Les récipients ouverts doivent être refermés avec soin et maintenus en position verticale afin d'éviter les fuites. Ne pas stocker dans des contenants (ou récipients) non étiquetés. Utiliser un récipient approprié pour éviter toute contamination du milieu ambiant. Voir la section 10 relative aux matières incompatibles avant la manutention ou l'utilisation. Stocker conformément à la réglementation locale. Peut former des piles abruptes qui peuvent s'effondrer sans préavis lorsqu'elles sont transportées ou entreposées en vrac. Cela peut

ROCK SALT (CRUSHED) - DEICING SALT

Section 7. Manutention et stockage

endommager l'équipement et mettre en danger les travailleurs. Le risque de formation de falaises et d'effondrement soudain augmente si le produit est chargé ou stocké à chaud ou dans des conditions d'humidité élevée. Évitez toute formation de pentes raides lors du retrait du produit. Si le produit a clifffé, ou a adhéré de la stockage ou au conteneur de transport, rester hors de la zone de danger potentiel dans le cas où le matériau s'effondre. Ne pas entrer dans les bacs, les wagons ou les camions sans procéder à une évaluation des risques et seulement après avoir respecté toutes les exigences relatives à l'espace confiné. Assurez-vous de prendre en compte les exigences de protection contre les chutes et de veiller à ce que l'équipement mobile ne bouge pas. Desserrez avec précaution le produit fixé de l'extérieur du conteneur en utilisant des vibrations mécaniques, des marteaux ou d'autres dispositifs.

Veiller à ce que les sacs en vrac, ou de petits paquets, stockés dans les niveaux sont empilés, palettisés, bloqué, interverrouillé, ou autrement fixé à empêcher le glissement, de roulement, ou l'effondrement. Faites preuve de prudence lors de l'ouverture camion ou le wagon portes en tant que produit peut avoir décalés pendant le transport.

Doit être stocké dans un endroit sec. Absorbe l'humidité sur le stockage à long terme dans des conditions d'humidité élevée. Conserver à l'écart des matières incompatibles (voir la section 10). Lorsque le produit est entreposé dans des contenants pouvant être fermés, garder le contenant hermétiquement fermé et scellé jusqu'au moment de l'utilisation. Les récipients scellables qui ont été ouverts doivent être soigneusement refermés et maintenus en position verticale pour éviter les fuites. Ne pas stocker dans des contenants non étiquetés.

Section 8. Contrôle de l'exposition/protection individuelle

Paramètres de contrôle

Limites d'exposition professionnelle

Nom des ingrédients	Limites d'exposition
chlorure de sodium	<p>OSHA PEL (États-Unis). TWA: 5 mg/m³, (Poussières non-classifiées autrement (PNCA)) 8 heures. Forme: Fraction alvéolaire TWA: 15 mg/m³, (Poussières non-classifiées autrement (PNCA)) 8 heures. Forme: Empoussiérage total CA Québec Provincial. (Canada). TWA: 10 mg/m³, (Poussières non-classifiées autrement (PNCA)) 8 heures. Forme: Total</p>
sulfate de calcium	<p>ACGIH TLV (États-Unis, 3/2020). TWA: 10 mg/m³ 8 heures. Forme: Fraction inhalable OSHA PEL 1989 (États-Unis, 3/1989). TWA: 5 mg/m³ 8 heures. Forme: Fraction alvéolaire TWA: 15 mg/m³ 8 heures. Forme: Empoussiérage total NIOSH REL (États-Unis, 10/2016). TWA: 5 mg/m³ 10 heures. Forme: Fraction alvéolaire TWA: 10 mg/m³ 10 heures. Forme: Total OSHA PEL (États-Unis, 5/2018). TWA: 5 mg/m³ 8 heures. Forme: Fraction alvéolaire TWA: 15 mg/m³ 8 heures. Forme: Empoussiérage total Gouvernement Provincial de British Columbia: (Canada, 1/2020). TWA: 10 mg/m³ 8 heures. Forme: Inhalable CA Alberta Provincial: (Canada, 6/2018). 8 hrs OEL: 10 mg/m³ 8 heures.</p>

ROCK SALT (CRUSHED) - DEICING SALT

Section 8. Contrôle de l'exposition/protection individuelle

Gouvernement Provinciale de l'Ontario: (Canada, 6/2019).
TWA: 10 mg/m³ 8 heures. Forme: Inhalable particulate matter.

CA Québec Provincial. (Canada, 7/2019).
VEMP: 5 mg/m³ 8 heures. Forme: La poussière respirable.
VEMP: 10 mg/m³ 8 heures. Forme: La poussière totale.

Gouvernement Provincial de la Saskatchewan: (Canada, 7/2013).
STEL: 20 mg/m³ 15 minutes.
TWA: 10 mg/m³ 8 heures.

- Contrôles d'ingénierie appropriés** : Une bonne ventilation générale devrait être suffisante pour contrôler l'exposition du technicien aux contaminants en suspension dans l'air. Assurer un contrôle pertinent du procédé pour éviter de déchets (température, pression, concentration, valeur de pH, durée).
- Contrôle de l'action des agents d'environnement** : Il importe de tester les émissions provenant des systèmes d'aération et du matériel de fabrication pour vous assurer qu'elles sont conformes aux exigences de la législation sur la protection de l'environnement. Dans certains cas, il sera nécessaire d'équiper le matériel de fabrication d'un épurateur de gaz ou d'un filtre ou de le modifier techniquement afin de réduire les émissions à des niveaux acceptables.

Mesures de protection individuelle

Contactez votre fabricant d'équipement de protection pour vérifier la compatibilité de l'équipement pour l'usage prévu.

- Mesures d'hygiène** : Après manipulation de produits chimiques, lavez-vous les mains, les avant-bras et le visage avec soin avant de manger, de fumer, d'aller aux toilettes et une fois votre travail terminé. Utiliser les techniques appropriées pour retirer les vêtements contaminés. Laver les vêtements contaminés avant de les réutiliser. Assurez-vous que des bassins oculaires et des douches de décontamination sont installés près des postes de travail.
- Protection oculaire/faciale** : Le port de lunettes de sécurité conformes à une norme approuvée est obligatoire quand une évaluation des risques le préconise pour éviter toute exposition aux éclaboussures de liquides, à la buée, aux gaz ou aux poussières. Si un contact est possible, les protections suivantes doivent être portées, à moins qu'une évaluation indique un besoin pour une protection supérieure : lunettes de sécurité avec écrans de protection latéraux.
- Protection de la peau**
- Protection des mains** : Lors de la manipulation de produits chimiques, porter en permanence des gants étanches et résistants aux produits chimiques conformes à une norme approuvée, si une évaluation du risque indique que cela est nécessaire.
- Protection du corps** : L'équipement de protection individuelle pour le corps doit être adapté à la tâche exécutée et aux risques encourus, et approuvé par un expert avant toute manipulation de ce produit.
- Autre protection pour la peau** : Il faut sélectionner des chaussures appropriées et toute autre mesure appropriée de protection de la peau en fonction de la tâche en cours et des risques en cause et cette sélection doit être approuvée par un spécialiste avant de manipuler ce produit.
- Protection respiratoire** : En fonction du risque et de la possibilité d'une exposition, choisir un respirateur qui est conforme à la norme ou certification appropriée. Les respirateurs doivent être utilisés suivant un programme de protection pour assurer un ajustement, une formation appropriée et d'aspects d'utilisation importants.

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Section 8. Contrôle de l'exposition/protection individuelle

Pour les sites de travail américains où une protection respiratoire est requise, s'assurer qu'un programme de protection respiratoire répondant aux exigences de la norme 29 CFR 1910.134 est en place.

Section 9. Propriétés physiques et chimiques et caractéristiques de sécurité

Toutes les propriétés sont mesurées à température et pression standard, sauf indication contraire.

Apparence

État physique	: Solide. [Granulés cristallins.]
Couleur	: Blanc.
Odeur	: Inodore.
Seuil olfactif	: Non disponible.
pH	: Non disponible.
Point de fusion et point de congélation	: 801°C (1473.8°F)
Point d'ébullition, point d'ébullition initial et plage d'ébullition	: 1430.85°C (2607.5°F)
Point d'éclair	: Non applicable.
Taux d'évaporation	: Non disponible.
Inflammabilité	: Non applicable.
Limite supérieure/inférieure d'inflammabilité ou d'explosivité	: Non applicable.
Tension de vapeur	: Non disponible.
Densité de vapeur relative	: Non applicable.
Densité relative	: 2.14
Densité	: 2.165 g/cm ³
Solubilité	: Facilement soluble dans les substances suivantes: l'eau froide et l'eau chaude.
Solubilité dans l'eau	: 317 g/l
Coefficient de partage n-octanol/eau	: Non applicable.
Température d'auto-inflammation	: Non applicable.
Température de décomposition	: Non disponible.
Viscosité	: Non applicable.
<u>Caractéristiques des particules</u>	
Taille médiane des particules	: Non disponible.

ROCK SALT (CRUSHED) - DEICING SALT

Section 10. Stabilité et réactivité

- Réactivité** : Peut être corrosif pour les métaux.
- Stabilité chimique** : Le produit est stable.
- Risque de réactions dangereuses** : Dans des conditions normales de stockage et d'utilisation, aucune réaction dangereuse ne se produit.
- Conditions à éviter** : Absorbe l'humidité de l'air. Stocker dans un endroit sec.
- Matériaux incompatibles** : Peut être corrosif pour les métaux. Contactez votre représentant commercial ou un spécialiste métallurgiques pour assurer la compatibilité avec votre équipement.
- Produits de décomposition dangereux** : Dans des conditions normales de stockage et d'utilisation, aucun produit de décomposition dangereux ne devrait apparaître.

Section 11. Données toxicologiques

Renseignements sur les effets toxicologiques

Toxicité aiguë

Nom du produit ou de l'ingrédient	Résultat	Espèces	Dosage	Exposition
chlorure de sodium	DL50 Orale	Rat	3000 mg/kg	-

Conclusion/Résumé : Faible toxicité aiguë.

Irritation/Corrosion

Nom du produit ou de l'ingrédient	Résultat	Espèces	Potentiel	Exposition	Observation
chlorure de sodium	Yeux - Modérément irritant	Lapin	-	24 heures 100 mg	-
	Yeux - Modérément irritant	Lapin	-	10 mg	-
	Peau - Léger irritant	Lapin	-	24 heures 500 mg	-

Conclusion/Résumé

- Peau** : Peut provoquer une irritation passagère.
- Yeux** : Peut causer une irritation oculaire mineure.
- Respiratoire** : Peut causer l'irritation due à action mécanique.

Sensibilisation

Non disponible.

Conclusion/Résumé

- Peau** : Aucun effet important ou danger critique connu.
- Respiratoire** : Aucun effet important ou danger critique connu.

Mutagénicité

Non disponible.

Conclusion/Résumé : Aucun effet important ou danger critique connu.

Cancérogénicité

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Section 11. Données toxicologiques

Nom du produit ou de l'ingrédient	Résultat	Espèces	Dosage	Exposition
chlorure de sodium	Négatif - Orale - TDLo	Rat - Mâle	-	-

Toxicité pour la reproduction

Non disponible.

Conclusion/Résumé : Aucun effet important ou danger critique connu.

Tératogénicité

Non disponible.

Conclusion/Résumé : Aucun effet important ou danger critique connu.

Toxicité systémique pour certains organes cibles - exposition unique -

Non disponible.

Toxicité pour certains organes cibles - expositions répétées -

Non disponible.

Risque d'absorption par aspiration

Non disponible.

Renseignements sur les voies d'exposition probables : Non disponible.

Effets aigus potentiels sur la santé

Contact avec les yeux : Peut causer l'irritation dûe à action mécanique.

Inhalation : La manipulation et/ou la transformation de cette substance peuvent éventuellement générer une poussière capable de provoquer une irritation mécanique des yeux, de la peau, du nez et de la gorge.

Contact avec la peau : Peut causer l'irritation dûe à action mécanique.

Ingestion : Aucun effet important ou danger critique connu.

Symptômes correspondant aux caractéristiques physiques, chimiques et toxicologiques

Contact avec les yeux : Les symptômes néfastes peuvent éventuellement comprendre ce qui suit:
irritation
rougeur

Inhalation : Aucune donnée spécifique.

Contact avec la peau : Les symptômes néfastes peuvent éventuellement comprendre ce qui suit:
rougeur

Ingestion : Aucune donnée spécifique.

Effets différés et immédiats ainsi que les effets chroniques causés par une exposition à court et à long terme

Exposition de courte durée

Effets immédiats possibles : Voir ci-dessus.

Effets différés possibles : Aucun effet important ou danger critique connu.

Exposition de longue durée

Effets immédiats possibles : Voir ci-dessus.

Effets différés possibles : Aucun effet important ou danger critique connu.

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Section 11. Données toxicologiques

Effets chroniques potentiels sur la santé

Nom du produit ou de l'ingrédient	Résultat	Espèces	Dosage	Exposition
chlorure de sodium	Chronique LOEL Orale	Rat - Mâle	2533 mg/kg	2 années

Généralités : Aucun effet important ou danger critique connu.
Cancérogénicité : Aucun effet important ou danger critique connu.
Mutagénicité : Aucun effet important ou danger critique connu.
Toxicité pour la reproduction : Aucun effet important ou danger critique connu.

Valeurs numériques de toxicité

Estimations de la toxicité aiguë

Nom du produit ou de l'ingrédient	Orale (mg/kg)	Cutané (mg/kg)	Inhalation (gaz) (ppm)	Inhalation (vapeurs) (mg/l)	Inhalation (poussières et brouillards) (mg/l)
chlorure de sodium	3000	N/A	N/A	N/A	N/A

Autres informations : Non disponible.

Section 12. Données écologiques

Toxicité

Non disponible.

Conclusion/Résumé : Peut être nocif pour l'environnement si libéré en grandes quantités.

Persistance et dégradation

Nom du produit ou de l'ingrédient	Demi-vie aquatique	Photolyse	Biodégradabilité
chlorure de sodium	-	-	Facilement

Potentiel de bioaccumulation

Non disponible.

Mobilité dans le sol

Coefficient de répartition sol/eau (K_{oc}) : Non disponible.

Autres effets nocifs : Aucun effet important ou danger critique connu.

Section 13. Données sur l'élimination

Méthodes d'élimination : Il est important de réduire au minimum, voire d'éviter la génération de déchets chaque fois que c'est possible. La mise au rebut de ce produit, des solutions et de tous les co-produits doit obéir en permanence aux dispositions de la législation sur la protection de l'environnement et l'élimination des déchets et demeurer conforme aux exigences des pouvoirs publics locaux. Éliminer le surplus et les produits non recyclables par l'intermédiaire d'une entreprise spécialisée autorisée de collecte des déchets. Ne pas rejeter les déchets non traités dans les égouts, à moins que ce soit en conformité avec les exigences de toutes les autorités compétentes. L'emballage des déchets doit être recyclé. L'incinération ou l'enfouissement sanitaire ne doivent être considérés que lorsque le recyclage n'est pas possible. Ne se débarrasser de ce produit et de son récipient qu'en prenant toutes les

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Section 13. Données sur l'élimination

précautions d'usage. Les contenants vides ou les doublures peuvent retenir des résidus de produit. Évitez la dispersion des matériaux déversés, ainsi que leur écoulement et tout contact avec le sol, les voies navigables, les drains et les égouts.

Section 14. Informations relatives au transport

	TDG	DOT	IMDG	IATA
Numéro ONU	Non réglementé.	Non réglementé.	Non réglementé.	Non réglementé.
Désignation officielle de transport de l'ONU	-	-	-	-
Classe de danger relative au transport	-	-	-	-
Groupe d'emballage	-	-	-	-
Polluant marin	Non.	Non.	Non.	Non.

Autres informations

Protections spéciales pour l'utilisateur : **Transport dans les locaux de l'utilisateur** : toujours transporter dans des conteneurs fermés qui sont droits et sûrs. Assurez-vous que les personnes qui transportent le produit savent ce qu'il faut faire en cas d'accident ou de déversement.

Section 15. Informations sur la réglementation

Listes canadiennes

INRP canadien : Aucun des composants n'est répertorié.

Substances toxiques au sens de la LCPE (Loi canadienne sur la protection de l'environnement) : Aucun des composants n'est répertorié.

Réglementations Internationales

Liste des substances chimiques des tableaux I, II et III de la Convention sur les armes chimiques

Non inscrit.

Protocole de Montréal

Non inscrit.

Convention de Stockholm relative aux polluants organiques persistants

Non inscrit.

Convention de Rotterdam sur le consentement préalable donné en connaissance de cause (PIC)

Non inscrit.

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Section 15. Informations sur la réglementation

Protocole d'Aarhus de la CEE-ONU relatif aux POP et aux métaux lourds

Non inscrit.

Liste d'inventaire

Australie	: Tous les composants sont répertoriés ou exclus.
Canada	: Tous les composants sont répertoriés ou exclus.
Chine	: Tous les composants sont répertoriés ou exclus.
Europe	: Tous les composants sont répertoriés ou exclus.
Japon	: Inventaire du Japon (CSCL) : Tous les composants sont répertoriés ou exclus. Inventaire japonais (ISHL) : Indéterminé.
Nouvelle-Zélande	: Tous les composants sont répertoriés ou exclus.
Philippines	: Tous les composants sont répertoriés ou exclus.
République de Corée	: Tous les composants sont répertoriés ou exclus.
Taiwan	: Tous les composants sont répertoriés ou exclus.
Thaïlande	: Tous les composants sont répertoriés ou exclus.
Turquie	: Tous les composants sont répertoriés ou exclus.
États-Unis	: Tous les composants sont actifs ou exemptés.
Viêt-Nam	: Tous les composants sont répertoriés ou exclus.
Réglementations États-Unis	: TSCA 8(a) CDR Exemption / Exemption partielle : Indéterminé

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Non inscrit

Clean Air Act Section 602 Class I Substances : Non inscrit

Clean Air Act Section 602 Class II Substances : Non inscrit

DEA List I Chemicals (Precursor Chemicals) : Non inscrit

DEA List II Chemicals (Essential Chemicals) : Non inscrit

SARA 302/304

Composition/information sur les ingrédients

Aucun produit n'a été trouvé.

SARA 304 RQ : Non applicable.

SARA 311/312

Classification : Non applicable.

Composition/information sur les ingrédients

Aucun produit n'a été trouvé.

Réglementations d'État

Massachusetts : Les composants suivants sont répertoriés: CALCIUM SULFATE; GYPSUM; PLASTER OF PARIS

New York : Aucun des composants n'est répertorié.

New Jersey : Les composants suivants sont répertoriés: CALCIUM SULFATE; SULFURIC ACID, CALCIUM SALT (1:1)

Pennsylvanie : Les composants suivants sont répertoriés: CALCIUM SULFATE

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Section 15. Informations sur la réglementation

Californie prop. 65

Ce produit ne requiert pas d'avertissement de la sphère de sécurité en vertu de la Proposition 65 de Californie.

Section 16. Autres informations

Historique

Date d'édition/Date de révision	: 2/16/2022
Date de publication précédente	: 3/30/2021
Version	: 2
Légende des abréviations	: ETA = Estimation de la toxicité aiguë FBC = Facteur de bioconcentration SGH = Système Général Harmonisé de classification et d'étiquetage des produits chimiques RPD = Règlement sur les produits dangereux IATA = Association international du transport aérien CVI = conteneurs en vrac intermédiaires code IMDG = code maritime international des marchandises dangereuses LogK _{ow} = coefficient de partage octanol/eau MARPOL = Convention internationale pour la prévention de la pollution par les navires de 1973, telle que modifiée par le Protocole de 1978. ("MARPOL" = pollution maritime) N/A = Non disponible SGG = Groupe de séparation NU = Nations Unies

Procédure utilisée pour préparer la classification

Non classé.

Indique quels renseignements ont été modifiés depuis la version précédente.

Avis au lecteur

Partenaires de la chaîne d'approvisionnement doivent veiller à ce qu'ils passent cette FDS, et toutes autres informations pertinentes sur la sécurité à leurs clients.

AVERTISSEMENT ET LIMITATION DE RESPONSABILITE

Les informations et recommandations contenues dans cette fiche signalétique («SDS») ne concernent que les matières spécifiques visées dans les présentes (le «matériel») et ne concernent pas l'utilisation de ces matériaux en combinaison avec tout autre matériel ou processus. Les informations et recommandations contenues dans ce document sont considérées comme exactes et à jour à compter de la date de la présente fiche signalétique. Toutefois, les informations et recommandations sont présentées sans garantie, représentation OU DE LICENCE D'AUCUNE SORTE, EXPLICITE OU IMPLICITE, EN CE QUI CONCERNE à leur exactitude, exactitude ou l'exhaustivité, et le vendeur, fournisseur et fabricant de matériel et de leur filiales respectives (COLLECTIVEMENT, LES «fournisseur») EXCLUENT TOUTE RESPONSABILITÉ POUR LA CONFIANCE DANS ces informations et recommandations. Cette FDS n'est pas une garantie de sécurité. Un acheteur ou l'utilisateur du matériel (un «bénéficiaire») est chargé de veiller à ce qu'elle dispose de tous les renseignements nécessaires pour utiliser en toute sécurité du matériel pour son but spécifique.

EN OUTRE, Le destinataire assume tous les risques RELATION AVEC L'UTILISATION DE LA MATIERE. Le destinataire assume tous responsabilité d'assurer le matériel est utilisé dans toute sécurité en RESPECT DES LOIS APPLICABLES L'ENVIRONNEMENT, DE LA SANTÉ, DE SÉCURITÉ ET DE SECURITE, LES POLITIQUES ET LES LIGNES DIRECTRICES. LE FOURNISSEUR NE GARANTIT PAS LA COMMERCIALISATION DE LA MATIERE OU LA SANTE DE LA MATIERE POUR UN USAGE PARTICULIER ET N'ACCEPTÉ AUCUNE RESPONSABILITÉ pour blessures ou dommages causés directement ou indirectement PAR OU EN RELATION AVEC L'UTILISATION DE LA MATIERE.

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Section 16. Autres informations



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SODIUM FERROCYANIDE DECAHYDRATE

Chemical overview

CAS #	14434-22-1
EINECS #	237-081-9
APPLICATIONS	Anti-caking Agents, Flame Retardants, Food & Beverage, Food Additives, Industrial Chemicals, Metal Working, Finishing & Flux, Mining - Salts & Metals
SYNONYMS	Sodium hexacyanoferrate(II), Tetrasodium hexacyanoferrate decahydrate; Ferrocianeto de sodio decahidratado; Ferrocianuro de sodio decahidratado
FORMULA	$\text{Na}_4\text{Fe}(\text{CN})_6 \cdot 10\text{H}_2\text{O}$
E NUMBER	E535
GRADE	Sodium Ferrocyanide Decahydrate FCC, Sodium Ferrocyanide Decahydrate Tech
CATEGORIES	Flame Retardants, Food & Beverage, Industrial Chemicals, Metal Working; Finishing & Flux, Mining - Salts & Metals

Products you may also be interested in:

- Borax
- Caffeine
- Citric Acid Anhydrous
- Citric Acid Monohydrate
- Diammonium Phosphate
- Hypophosphorous Acid
- N-Propylbromide
- Oxalic Acid
- Phosphoric Acid
- Polyphosphoric Acid
- Sodium Benzoate
- Sodium Dimethyldithiocarbamate
- Sodium Glycinate
- Sodium Hydrosulfide
- Sodium Hypophosphite Monohydrate
- Sodium Stannate
- Sodium Tripolyphosphate
- Sucrose Acetate Isobutyrate
- Tetrabromobisphenol-A
- Xanthan Gum

Please contact Wego Chemical Group for any questions regarding Sodium Ferrocyanide Decahydrate.
We would be happy to provide a quote, a sample, or further information regarding its uses and availability.

Visit wegochem.com/contact-us to get in touch!

GLOBAL SALES OFFICES

United States - Mexico - Brazil - Netherlands - Turkey - Japan

The information set forth herein is offered as a service to our customers and is not intended to relieve a customer from their responsibility to determine the suitability of this information or of the materials described herein for purchaser's purposes, to investigate other sources of information, to comply with all laws and procedures regarding safe use of these materials, and to use these materials in a safe manner. No warranty is made of the merchantability or fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

Sodium Ferrocyanide

Section 4 - First Aid Measures

Inhalation: Supply fresh air. If required, provide artificial respiration.

Eye Contact: Rinse opened eye for several minutes under running water. Then consult a doctor if irritation persists.

Skin Contact: Immediately wash with water and soap and rinse thoroughly. Seek medical advice if irritation persists.

Ingestion: If material is swallowed, induce vomiting if patient is conscious. Never give anything by mouth to an unconscious person. Seek medical advice.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treat symptomatically and supportively.

Section 5 - Fire-Fighting Measures

Flash Point: not applicable

Flash Point Method:

Burning Rate:

Auto-ignition Temperature: not determined

LEL: not determined

UEL: not determined

Flammability Classification: Product is not flammable.

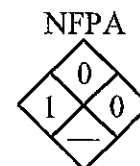
Extinguishing Media: Product is not flammable. Use firefighting measures that suit the surrounding fire.

Unusual Fire or Explosion Hazards: none

Hazardous Combustion Products:

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid raising dust. Eliminate flammables. Eliminate all ignition sources. Dispose contaminated material as waste according to official regulations.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Water, if necessary with cleansing agents.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Keep container tightly sealed.

Storage Requirements: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Sodium Ferrocyanide

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

<p>Physical State: solid Appearance: yellow semi-transparent crystals Odor: odorless Vapor Pressure: N/A Vapor Density (Air=1): Formula Weight: 484.06 Density/Specific Gravity (H₂O=1, at 4 °C): 1.458 pH: N/A Flash Point: not applicable Flash Point Method: Burning Rate: not determined Auto-ignition Temperature: not determined</p>	<p>Water Solubility: 318.5 g/l @ 20 °C Other Solubilities: not determined Boiling Point: N/A Freezing/Melting Point: N/A Decomposition Point: 435 °C (815 °F) Viscosity: not determined Refractive Index: not determined Surface Tension: not determined % Volatile: N/A Evaporation Rate: N/A LEL: not determined UEL: not determined</p>
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Section 10 - Stability and Reactivity

Stability: Sodium Ferrocyanide is stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Oxidizing agents, ammonia, chromic acid and strong acids.
Conditions to Avoid: incompatibilities. **ACIDS:** Evolution of highly toxic and flammable hydrogen cyanide gas. **OXIDIZERS (STRONG):** Fire and explosion hazard.
Hazardous Decomposition Products: Thermal oxidative decomposition of Sodium Ferrocyanide can produce oxides of nitrogen, carbon monoxide, carbon dioxide and hydrogen cyanide.

Section 11- Toxicological Information

SODIUM FERROCYANIDE:

ADDITIONAL DATA: Because of the strong chemical bond between the cyanide group and the iron, ferrocyanides do not release cyanide under normal conditions. However, certain industrial processes may release hydrogen cyanide which is a chemical asphyxiant.

Toxicity

Oral (rat) LD₅₀: 5100 mg/kg

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE: SODIUM FERROCYANIDE: May cause irritation to the respiratory tract. Ferrocyanides have a low order of toxicity. However, certain industrial processes may release hydrogen cyanide which is a chemical asphyxiant.

CHRONIC EXPOSURE: SODIUM FERROCYANIDE: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

SODIUM FERROCYANIDE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM FERROCYANIDE: No specific data available. No dermatitis was reported in workers handling potassium ferrocyanide over a number of years.

EYE CONTACT:

ACUTE EXPOSURE:

SODIUM FERROCYANIDE: Dust may cause irritation.

CHRONIC EXPOSURE:

SODIUM FERROCYANIDE: No data available.

INGESTION:

Sodium Ferrocyanide

ACUTE EXPOSURE: SODIUM FERROCYANIDE: The reported probable lethal dose in humans is 0.5-5.0 gm/kg. Ferrocyanide salts are rapidly excreted in urine without metabolic alteration.

CHRONIC EXPOSURE: SODIUM FERROCYANIDE: No data available.

* See NIOSH, *RTECS*, for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: data not available.

Environmental Fate: data not available.

Environmental Degradation: data not available.

Soil Absorption/Mobility: data not available.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements:

Section 14 - Transport Information

Not regulated for transportation

US DOT(49 CFR 172.101):

PSN:

Hazard Class:

UN Number:

Packing Group:

IATA

PSN:

Hazard Class:

UN Number:

Packing Group:

TDG

PSN:

Hazard Class:

UN Number:

Packing Group:

IMDG/IMO

PSN:

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 14434-22-1 are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Sodium Ferrocyanide

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 14434-22-1 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

Risk Phrases:**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

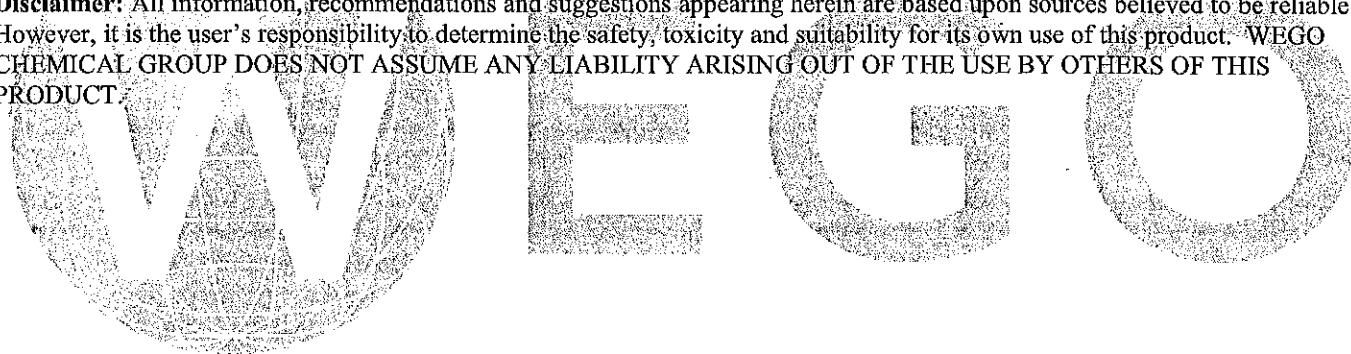
Canada - DSL/NDSL

Canada - WHMIS

WHMIS: Not available.

Section 16 - Other Information

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGG CHEMICAL GROUP DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.



To Whom it may concern,

Kingsco Transport Ltd. Obtains its salt from the Nutrien Mine in Penobsquis NB. They have a stockpile at their location McCully Station Road Penobsquis , that is available for testing. We also have a storage facility capable of holding 30,000m/t of salt as well at 32 Armand Road Penobsquis NB Canada . Should questions arise please feel free to contact me at 1-800-995-1188 ext 1.

G.M. Young

Operations manager

Kingsco Transport Ltd.



To whom it may concern,

As the Caribou, public works director, we have been using Kingsco. transportation for all our salt needs for approximately 10 years. The quality of their salt is excellent, and we have never had a problem with deliveries. Our experience with the staff has been excellent.

David Ouellette

Caribou Public Works

207 4211



City of Presque Isle, Maine

The Department of
Public Services

Dana H. Fowler, P.E.

Email: dfowler@presqueisleme.us

June 2, 2022

RE: Letter of Reference for Kingsco Transport Ltd

To Whom It May Concern:

The Public Works Department of the City of Presque Isle has used Kingsco Transport as its supplier of road salt for several years and would recommend them to others. Kingsco was our salt vendor for the winter seasons of 2019-2020 and 2021-2022. We purchased over 2,000 tons from Kingsco in each of those seasons.

We have found Kingco to be a reliable supplier. The City fills its salt storage building at the beginning of the season and replaces product on an ongoing basis through the winter months. Kingsco has always delivered product on time. We are also happy with their salt and have had no issues with gradation or excessive moisture.

Kingsco is a reputable company. We signed an agreement with them in May of 2021 and at some point after that date, the company incurred some unanticipated additional costs due to a fuel surcharge imposed by their government, which was not addressed in the agreement. Despite this increase and to their credit, they did not attempt to pass on those new costs to the City. They held to their original contract price and performed flawlessly throughout the agreement period.

We look forward to continuing our business relationship with Kingsco in the future and would recommend them highly to others who are considering doing business with them.

Sincerely,

Dana H. Fowler, P.E.
Public Services Director

May 31, 2022

RE: KingsCo Transport
77 Wheeler Road
Four Corners, NB E4G 2W5
CANADA

To whom it may concern:

Kingsco Transport has provided the Town of Linneus with Salt to be used for winter road maintenance for the past several years. The quality of the product and the service provided have been superior. We did not have any problems with delivery even during the pandemic border closure either going or coming that I am aware of. Once the Town was established as a customer, ordering product, or scheduling a delivery was as simple as a telephone call to the company dispatcher. Once the order was confirmed, the delivery date was set and worked into Kingsco's schedule. All that was necessary was we had someone available to meet the delivery.

Sincerely,

Carroll Willette
Town Manager

RIDER B TERMS AND CONDITIONS

- 1. DEFINITIONS:** The following definitions are applicable to these standard terms and conditions:
 - a. The term "Buyer" or "State" shall refer to the Government of the State of Maine or a person representing the Government of the State of Maine.
 - b. The term "Department" or "DAFS" shall refer to the State of Maine Department of Administrative and Financial Services.
 - c. The term "Bureau" or "BGS" shall refer to the State of Maine Bureau of General Services.
 - d. The term "Division" shall refer to the State of Maine Division of Purchases.
 - e. The term "Contractor", "Vendor", or "Provider" shall refer to the organization that is providing goods and/or services through the contract to which these standard terms and conditions have been attached and incorporated.
 - f. The term "Contract" or "Agreement" shall refer to the contract document to which these standard terms and conditions apply, taking the format of a Buyer Purchase Order (BPO) or Master Agreement (MA) or other contractual document that is mutually agreed upon between the State and the Contractor.

- 2. WARRANTY:** The Contractor warrants the following:
 - a. That all goods and services to be supplied by it under this Contract are fit and sufficient for the purpose intended, and
 - b. That all goods and services covered by this Contract will conform to the specifications, drawing samples, symbols or other description specified by the Division, and
 - c. That such articles are merchantable, good quality, and free from defects whether patent or latent in material and workmanship, and
 - d. That all workmanship, materials, and articles to be provided are of the best grade and quality, and
 - e. That it has good and clear title to all articles to be supplied by it and the same are free and clear from all liens, encumbrances and security interest.

Neither the final certificate of payment nor any provision herein, nor partial nor entire use of the articles provided shall constitute an acceptance of work not done in accordance with this agreement or relieve the Contractor liability in respect of any warranties or responsibility for faulty material or workmanship. The Contractor shall remedy any defects in the work and pay any damage to other work resulting therefrom, which shall appear within one year from the date of final acceptance of the work provided hereunder. The Division of Purchases shall give written notice of observed defects with reasonable promptness.

3. TAXES: Contractor agrees that, unless otherwise indicated in the order, the prices herein do not include federal, state, or local sales or use tax from which an exemption is available for purposes of this order. Contractor agrees to accept and use tax exemption certificates when supplied by the Division as applicable. In case it shall ever be determined that any tax included in the prices herein was not required to be paid by Contractor, Contractor agrees to notify the Division and to make prompt application for the refund thereof, to take all proper steps to procure the same and when received to pay the same to the Division.

4. PACKING AND SHIPMENT: Deliveries shall be made as specified without charge for boxing, carting, or storage, unless otherwise specified. Articles shall be suitably packed to secure lowest transportation cost and to conform to the requirements of common carriers and any applicable specifications. Order numbers and symbols must be plainly marked on all invoices, packages, bills of lading, and shipping orders. Bill of lading should accompany each invoice. Count or weight shall be final and conclusive on shipments not accompanied by packing lists.

5. DELIVERY: Delivery should be strictly in accordance with delivery schedule. If Contractor's deliveries fail to meet such schedule, the Division, without limiting its other remedies, may direct expedited routing and the difference between the expedited routing and the order routing costs shall be paid by the Contractor. Articles fabricated beyond the Division's releases are at Contractor's risk. Contractor shall not make material commitments or production arrangements in excess of the amount or in advance of the time necessary to meet delivery schedule, and, unless otherwise specified herein, no deliveries shall be made in advance of the Division's delivery schedule. Neither party shall be liable for excess costs of deliveries or defaults due to the causes beyond its control and without its fault or negligence, provided, however, that when the Contractor has reason to believe that the deliveries will not be made as scheduled, written notice setting forth the cause of the anticipated delay will be given immediately to the Division. If the Contractor's delay or default is caused by the delay or default of a subcontractor, such delay or default shall be excusable only if it arose out of causes beyond the control of both Contractor and subcontractor and without fault of negligence or either of them and the articles or services to be furnished were not obtainable from other sources in sufficient time to permit Contractor to meet the required delivery schedule.

6. FORCE MAJEURE: The State may, at its discretion, excuse the performance of an obligation by a party under this Agreement in the event that performance of that obligation by that party is prevented by an act of God, act of war, riot, fire, explosion, flood or other catastrophe, sabotage, severe shortage of fuel, power or raw materials, change in law, court order, national defense requirement, or strike or labor dispute, provided that any such event and the delay caused thereby is beyond the control of, and could not reasonably be avoided by, that party. The State may, at its discretion, extend the time period for performance of the obligation excused under this section by the period of the excused delay together with a reasonable period to reinstate compliance with the terms of this Agreement.

7. INSPECTION: All articles and work will be subject to final inspection and approval after delivery, notwithstanding prior payment, it being expressly agreed that payment will not constitute final acceptance. The Division of Purchases, at its option, may either reject any article or work not in conformity with the requirements and terms of this order, or re-work the same at Contractor's expense. The Division may reject the entire shipment where it consists of a quantity of similar articles and sample inspection discloses that ten (10%) percent of the articles inspected are defective, unless Contractor agrees to reimburse the Division for the cost of a complete inspection of the articles included in such shipment. Rejected material may be returned at Contractor's risk and expense at the full invoice price plus applicable incoming transportation charges, if any. No replacement of defective articles of work shall be made unless specified by the Division.

8. INVOICE: The original and duplicate invoices covering each and every shipment made against this order showing Contract number, Vendor number, and other essential particulars, must be forwarded promptly to the ordering agency concerned by the Vendor to whom the order is issued. Delays in receiving invoice and also errors and omissions on statements will be considered just cause for withholding settlement without losing discount privileges. All accounts are to be carried in the name of the agency or institution receiving the goods, and not in the name of the Division of Purchases.

9. ALTERATIONS: The Division reserves the right to increase or decrease all or any portion of the work and the articles required by the bidding documents or this agreement, or to eliminate all or any portion of such work or articles or to change delivery date hereon without invalidating this Agreement. All such alterations shall be in writing. If any such alterations are made, the contract amount or amounts shall be adjusted accordingly. In no event shall Contractor fail or refuse to continue the performance of the work in providing of articles under this Agreement because of the inability of the parties to agree on an adjustment or adjustments.

10. TERMINATION: The Division may terminate the whole or any part of this Agreement in any one of the following circumstances:

- a. The Contractor fails to make delivery of articles, or to perform services within the time or times specified herein, or
- b. If Contractor fails to deliver specified materials or services, or
- c. If Contractor fails to perform any of the provisions of this Agreement, or
- d. If Contractor so fails to make progress as to endanger the performance of this Agreement in accordance with its terms, or
- e. If Contractor is adjudged bankrupt, or if it makes a general assignment for the benefit of its creditors or if a receiver is appointed because of its insolvency, or
- f. Whenever for any reason the State shall determine that such termination is in the best interest of the State to do so.

In the event that the Division terminates this Agreement in whole or in part, pursuant to this paragraph with the exception of 8(f), the Division may procure (articles and services similar to those so terminated) upon such terms and in such manner as the Division deems appropriate, and Contractor shall be liable to the Division for any excess cost of such similar articles or services.

11. NON-APPROPRIATION: Notwithstanding any other provision of this Agreement, if the State does not receive sufficient funds to fund this Agreement and other obligations of the State, if funds are de-appropriated, or if the State does not receive legal authority to expend funds from the Maine State Legislature or Maine courts, then the State is not obligated to make payment under this Agreement.

12. COMPLIANCE WITH APPLICABLE LAWS: Contractor agrees that, in the performance hereof, it will comply with applicable laws, including, but not limited to statutes, rules, regulations or orders of the United States Government or of any state or political subdivision(s) thereof, and the same shall be deemed incorporated herein by reference. Awarding agency requirements and regulations pertaining to copyrights and rights in data. Access by the grantee, the subgrantee, the Federal grantor agency, the Comptroller General of the United States, or any of their duly authorized representatives to any books, documents, papers and records of the Contractor which are directly pertinent to that specific contract for the purpose of making audit, examination,

excerpts, and transcriptions. Retention of all required records for three years after grantees or subgrantees make final payments and all other pending matters are closed. Compliance with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 1857(h), section 508 of the Clean Water Act, (33 U.S.C. 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR part 15). (Contracts, subcontracts, and subgrants of amounts in excess of \$100,000). Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).

13. INTERPRETATION: This Agreement shall be governed by the laws of the State of Maine as to interpretation and performance.

14. DISPUTES: The Division will decide any and all questions which may arise as to the quality and acceptability of articles provided and installation of such articles, and as to the manner of performance and rate of progress under this Contract. The Division will decide all questions, which may arise as to the interpretation of the terms of this Agreement and the fulfillment of this Agreement on the part of the Contractor.

15. ASSIGNMENT: None of the sums due or to become due nor any of the work to be performed under this order shall be assigned nor shall Contractor subcontract for completed or substantially completed articles called for by this order without the Division's prior written consent. No subcontract or transfer of agreement shall in any case release the Contractor of its obligations and liabilities under this Agreement.

16. STATE HELD HARMLESS: The Contractor agrees to indemnify, defend, and save harmless the State, its officers, agents, and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, material men, laborers and other persons, firm or corporation furnishing or supplying work, services, articles, or supplies in connection with the performance of this Agreement, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by the Contractor in the performance of this Agreement.

17. SOLICITATION: The Contractor warrants that it has not employed or written any company or person, other than a bona fide employee working solely for the Contractor to solicit or secure this Agreement, and it has not paid, or agreed to pay any company, or person, other than a bona fide employee working solely for the Contractor any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon, or resulting from the award for making this Agreement. For breach or violation of this warranty, the Division shall have the absolute right to annul this agreement or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

18. WAIVER: The failure of the Division to insist, in any one or more instances, upon the performance of any of the terms, covenants, or conditions of this order or to exercise any right hereunder, shall not be construed as a waiver or relinquishment of the future performance of any such term, covenant, or condition or the future exercise of such right, but the obligation of Contractor with respect to such future performance shall continue in full force and effect.

19. MATERIAL SAFETY: All manufacturers, importers, suppliers, or distributors of hazardous chemicals doing business in this State must provide a copy of the current Material Safety Data Sheet (MSDS) for any hazardous chemical to their direct purchasers of that chemical.

20. COMPETITION: By accepting this Contract, Contractor agrees that no collusion or other restraint of free competitive bidding, either directly or indirectly, has occurred in connection with this award by the Division of Purchases.

21. INTEGRATION: All terms of this Contract are to be interpreted in such a way as to be consistent at all times with this Standard Terms and Conditions document, and this document shall take precedence over any other terms, conditions, or provisions incorporated into the Contract.

Appendix A

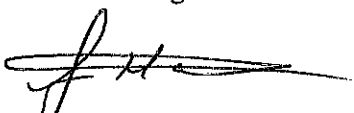
STATE OF MAINE
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES
DIVISION OF PROCUREMENT SERVICES

BID COVER PAGE and DEBARMENT FORM

Bidder's Organization Name: Kingsco Transport Ltd.		
Chief Executive - Name/Title: Jim Harris President + CEO		
Tel: 506-433-8820	Fax: 506-432-6376	E-mail: jharris@Kingscotransport.com
Headquarters Street Address: 77 Wheeler Road		
Headquarters City/State/Zip: Four Corners N.B. Canada E4G 2W5		
<i>(provide information requested below if different from above)</i>		
Lead Point of Contact for Bid - Name/Title: Mike Young Operations Manager		
Tel: 506433-8820	Fax: 506432-6376	E-mail: myoung@Kingscotransport.com
Street Address: 77 Wheeler Road		
City/State/Zip: Four Corners N.B. Canada E4G 2W5		

By signing below Bidder affirms:

- Their bid complies with all requirements of this RFQ;
- This bid and the pricing structure contained herein will remain firm for a period of 180 days from the date and time of the bid opening;
- That no personnel currently employed by the Department or any other State agency participated, either directly or indirectly, in any activities relating to the preparation of the Bidder's proposal;
- That no attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not to submit a proposal; and
- The undersigned is authorized to enter into contractual obligations on behalf of the above-named organization.


Name: Jim Harris.	Title: President, CEO.
To have your bid accepted, this Appendix MUST have an actual wet signature or utilize DocuSign or Adobe Sign forms of electronic signature.	
Authorized Signature: 	Date: JUNE 8 / 2022

Debarment, Performance, and Non-Collusion Certification

By signing this document, I certify to the best of my knowledge and belief that the aforementioned organization, its principals, and any subcontractors named in this proposal:

- a. Are not presently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from bidding or working on contracts issued by any governmental agency.
 - b. Have not within three years of submitting the proposal for this contract been convicted of or had a civil judgment rendered against them for:
 - i. fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a federal, state or local government transaction or contract.
 - ii. violating Federal or State antitrust statutes or committing embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - iii. are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
 - iv. have not within a three (3) year period preceding this proposal had one or more federal, state or local government transactions terminated for cause or default.
 - c. Have not entered into a prior understanding, agreement, or connection with any corporation, firm, or person submitting a response for the same materials, supplies, equipment, or services and this proposal is in all respects fair and without collusion or fraud. The above mentioned entities understand and agree that collusive bidding is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards.
- Failure to provide this certification may result in the disqualification of the Bidder's proposal, at the discretion of the Department.

To the best of my knowledge all information provided in the enclosed proposal, both programmatic and financial, is complete and accurate at the time of submission.

Name: Jim Harris	Title: President & CEO
To have your bid accepted, this Appendix MUST have an actual wet signature or utilize Docu Sign or Adobe Sign forms of electronic signature.	
Authorized Signature: 	Date: JUNE 8 / 2022