

**ERIE AREA COUNCIL OF GOVERNMENTS
JOINT BIDDING COMMITTEE
2020**

**BID # 2020- 7
SIDEWALK DEICER MATERIAL**

**PLEASE CONTACT JESSICA HORAN-KUNCO WITH QUESTIONS
AT JHKUNCO@ERIEAREACOG.ORG
OR (814) 454-1770**

PROPOSAL FROM:

COMPANY: Chemical Equipment Labs of DE, Inc
ADDRESS: 3920 A Providence Road
Newtown Square PA 19073
CONTACT NAME: Bob Frey
PHONE #: 610-497-9390
E-MAIL: BFrey@ChemicalEquipmentLabs.com
DATE: 4/30/2020

ERIE AREA COUNCIL OF GOVERNMENTS

150 East Front Street · Suite 300 · Erie, PA 16507
Phone (814) 454-1770 · Email jhkunco@erieareacog.org

TO: ALL PROSPECTIVE BIDDERS
FROM: EACOG'S JOINT MUNICIPAL BIDDING COMMITTEE
SUBJECT: SOLICITATION OF BIDS -- **Sidewalk Deicer Material**
DATE: April 21, 2020

Sealed proposals will be received by the Erie Area Council of Governments Joint Bidding Committee, acting on behalf of the County of Erie, the City of Erie, the Townships of Harborcreek and Lawrence Park. Proposals must be enclosed in a sealed envelope addressed to the Erie Area Council of Governments Joint Municipal Bidding Committee, and should bear the name and address of the bidder and the item or items which are bid on the exterior of the sealed envelope.

Sealed bids may be dropped off, delivered or mailed until **12:00 pm (noon) on May 5, 2020 to the Erie Area COG c/o Jessica Horan-Kunco 439 West Arlington Rd. Erie, PA 16509.**
No bids will be accepted via e-mail or website.

All sealed bids submitted shall be **opened and read aloud** on **Monday, May 5, 2020 at 2:00 pm at the Harborcreek Township Building 5601 Buffalo Rd. Harborcreek, PA 16421**

Due to Covid19, the public is encouraged to view the bid opening via Live Stream on [facebook.com/ErieAreaCOG/](https://www.facebook.com/ErieAreaCOG/)

Items for which bids will be received include:

Sidewalk Deicer Material

The role of the EACOG'S Joint Bidding Committee is to combine the participant's anticipated annual material requirement, to agree on a standard bidding specifications acceptable to all participating municipalities and to seek competitive bids for all items jointly, in an effort to receive a lower, more equitable price for all participating local governments. Each municipality reserves the right to reject any and all bids.

If you have any question regarding the following bidding specification/procedures, please contact Jessica Horan-Kunco, Executive Director at 814-454-1770 or jhkunco@erieareacog.org.

**ERIE AREA COUNCIL OF GOVERNMENTS
JOINT MUNICIPAL BIDDING COMMITTEE**

INSTRUCTIONS TO BIDDERS

ARTICLE I - DEFINITIONS

Wherever used in these contract documents or specifications, the following terms shall have the meanings indicated and shall be applicable to both the singular and plural thereof:

Bidder - Any person, firm, or corporation submitting a bid.

Contract - The signed written agreement between the Owner and the Contractor covering the materials, supplies, equipment, product and/or services to be purchased.

Contract Date - The effective date of the beginning of the Contract time. Such date to be in accord with Article IX and to be indicated by the Owner in the notice of award.

Contract Documents - The contract documents shall consist of the advertisement for bids or notice to bidders; bid security; performance bonds; instructions to bidders; form of proposal; the Contract, the general and special conditions of contract; and the detail specifications, including all modifications thereof incorporated in any of the documents before the execution of the Contract.

Contract Term - The calendar period stated in the Contract and/or Form of Proposal for the completion of the project and/or Contract as specified.

Contractor - The person, firm, or corporation with whom the Owner has executed the Contract.

Form of Proposal - The offer or proposal of the bidder submitted on the prescribed form setting forth the prices for the material and/or services to be furnished.

Modification - Any written amendment of any of the contract documents (including change orders) duly executed and delivered after executions of the Contract.

Notice - Written notice shall be deemed to have been duly served if delivered in person or electronically via email or website download to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or to an authorized representative of such individual, firm or corporation.

Number - The singular shall be deemed to include the plural, and the plural the singular, as the context may require and is the masculine gender.

Owner - During bidding procedures, the Owner shall be represented by the Erie Area Council of Governments Joint Municipal Bidding Committee. During the Bidder selection and contract terms selection, and after the finalization of the Contract with the individual Participants, the Owner shall generally be understood to be the Participants named in the contract document and/or each Contract.

Participants - Those current member municipalities of the Erie Area Council of Governments and other specified Municipalities, Municipal Authorities, and School districts who hereby desire to participate in the Erie Area Council of Governments Joint Municipal Bidding Program. These municipalities shall include the County of Erie, City of Erie; Boroughs of Edinboro, Girard, Union City and Wesleyville; the Townships of Franklin, Girard, Greenfield, Harborcreek, Lawrence Park, LeBoeuf, Millcreek, Summit and Venango.

Security - Bid bond, performance bond, payment bond, certified check, and other instruments of security, furnished by the bidder and his surety in accordance with the contract documents.

ARTICLE II - AWARD, EXECUTION OF DOCUMENTS, DELIVERY OF BONDS

The award of the Contract, if it is awarded, will be to the lowest responsible Bidder whose qualifications indicate the award will be in the best interest of the Owner and whose proposal complies with all the prescribed requirements. No award will be made until the Owner has concluded such investigations as deemed necessary to establish the responsibility, qualifications and financial ability of the Bidder to complete the project or to provide the requested material, supplies, equipment, product and/or services to the satisfaction of the Owner, within the time prescribed. **The Owner reserves the right to reject the bid of any Bidder who does not pass such investigation to the Owner's satisfaction.**

The Owner reserves the right to reject any or all bids, in whole or part, and to waive any informality in bids received when such is in the best interest of the Owner and to reject the bid(s) of a Bidder who in the opinion of the Owner is not in a position to perform the Contract. Each municipality reserves the right to reject any bid, without jeopardizing the bid price to those municipalities who desire to award or accept the bid.

In analyzing bids, the Owner may take into consideration alternates and unit prices if requested by the Form of Proposal. The Owner will give the successful Bidder written notice of the award within sixty (60) day after the opening of the bids. The Owner shall be required to take the proper action to accept or reject the bids submitted with sixty (60) days of the bid opening.

Each municipality will execute its own Contract or purchase order with the successful Bidders and shall be liable only for supplies, equipment, material, product and/or services contracted for by itself. Each successful Bidder shall be required to invoice each participating municipality separately.

Upon notification and within ten (10) days of the execution of the contract documents and at the discretion of the municipality the vendor may be required to deliver a performance bond as security for the faithful performance of this Contract. The performance bond will be provided payable to the municipality. The performance bond shall be in the amount of fifty percent (50%) of the Contract amount based on the estimated quantities of the awarding municipality detailed elsewhere and the bidder's proposed price.

Failure of the successful Bidder to execute the contract documents and deliver any required security within ten days (10) of the notification of the award shall be just cause for the Owner to annul the award and declare the bid and any guarantee thereof forfeited.

The bid security of all Bidders except that of the two (2) apparent lowest Bidders will be returned within one (1) month of the bid opening. The bid security of the two (2) apparent lowest bidders will be returned upon finalization of the agreement with the successful Bidder.

ARTICLE III - REQUIREMENTS FOR SIGNING BIDS

Each bid must give the full business name and address of the Bidder and be signed by him with his usual signature. Bids shall be signed in ink. Bids which are not signed by the individual making them, should have attached thereto a power-of-attorney evidencing authority to sign the bid in the name of the person for whom it is signed. Bids by partnership must furnish the full name of all partners and must be signed in the partnership name by all of the partners or by an attorney-in-fact.

If signed by an attorney-in-fact, there should be attached to the bid a power-of-attorney evidencing authority to sign the bid(s) executed by the partners. Bids by corporations must be signed with the legal name of the corporation, followed by the name of the state of incorporation and by the signature of the president or vice-president, or other officer of the corporation authorized to bind it in these matters; together with the impression of the corporate seal, attested by the secretary of the corporation. When requested by the Owner, satisfactory evidence of the

authority of the officer signing in behalf of the corporation shall be furnished.

ARTICLE IV - CERTIFIED STATEMENTS

Bidders may be required to submit sworn statements of their financial responsibility, technical qualifications, previous experience, performance record or other pertinent data designed to indicate the Bidder's capability to execute this Contract competently and successfully.

ARTICLE V - CHANGES WHILE BIDDING

During the bidding period, Bidders may be furnished with addenda for additions or alteration to the bidding specifications. These shall be included in the bid proposal and shall become a part of the contract documents. The Bidder shall be required to indicate the receipt of such addenda.

ARTICLE VI - WITHDRAWAL OF BIDS

Any Bidder may withdraw his bid at any time prior to the scheduled time for the receipt of bids. No bid may be withdrawn after the time and date set forth in the Notice to Bidders, which indicates when bids shall be opened. Negligence on the part of the Bidder in preparing the bid confers no right for the withdrawal of the bid after it has been opened.

ARTICLE VII - CONTRACT MODIFICATION

After the contract date, **the EACOG member and joint bidding participants reserve the right to enter into a Contract with a successful Bidder--utilizing the initial or established bidding terms, conditions and prices--for any supplies, product, material, equipment and/or services that were included in the successful Bidders' initial joint bid proposal. This procedure will permit a participating municipality to fulfill its municipal code's purchasing regulations and furthermore allow a participating municipality to enter into a Contract with a successful Bidder, even though that municipality was not included in the initial bid request. This provision is not extended to municipalities that are neither EACOG members nor Joint Bidding participants, a list of eligible participants is included in the Special Conditions section.**

If for any reason, the initial bidding specifications include or fail to include a minor and/or closely related requirement--that is desirable of the Owner to change, add to or delete from the awarded Contract--the Owner shall have the right, through the issuance of a change order and granting approval of the Contractor, to change, add to or delete from the Contract, such minor or closely related requirements. (Examples of changes, additions or deletions of minor or closely related requirements shall include, but are not limited to--colors, sizes or accessory equipment).

ARTICLE VIII - VERBAL STATEMENTS

No verbal or oral interpretation of plans or specifications will be given before the award of the Contract. Discrepancies, omissions, or doubts as to the meaning of plans or specifications should be communicated to the Owner in writing for clarification. Any interpretation made will be in the form of an addendum to the specifications which will be forwarded to all Bidders by registered mail. See Article V.

ARTICLE IX - CONTRACT DURATION

Unless otherwise noted or specified, all Contracts shall commence with the Contract Date and expire on May 30, 2021 or on May 30th of subsequent years if extended by mutual agreement. Those municipalities having Contracts for supplies, equipment, material, product and/or services whose term extends into the period covered by this Contract time will have the right to participate in a Contract with the successful Bidder as their individual obligations expire.

ARTICLE X - BIDS OR PROPOSALS

All bids must be indicated upon the Form of Proposal attached hereto. Bidders shall submit the completed bid documents either by mail drop off or delivery. All proposals must be addressed as outlined in this document. The Bidders may bid on any or all items called for in the Form of Proposal; if an item or alternate is called for on a type of equipment or material or method on which the Bidder does not desire to bid, he may insert the words "No Bid" in the space provided for prices on such item(s) or alternate(s). If it is determined by the Owner to use alternate type of equipment, type of material, or method--the fact that the cost of an alternative type of equipment, material or method bid by a Bidder may be lower than that chosen, shall not constitute the basis or a claim by the Bidder that the Contract shall be awarded to him. In the case that a Bidder desires to bid on an alternate, he shall set forth in the space provided in the Form of Proposal the explanation and amount to be added or deducted from the base bid. If an alternate price called for does not involve a change in price, the Bidder shall so indicate by inserting the words "No Change" in the space provided. If any type of discount is offered by the Bidder for prompt payment of bills or other consideration, such may also be set forth on the Form of Proposal.

Erasures or changes in a bid must be explained or noted over the signature of the Bidder. Bids containing any conditions, omissions, unexplained erasures or alterations or items not called for in the proposal or irregularities of any kind, may be rejected by the Owner as being incomplete.

Bids shall be accompanied by bid security as provided in the Special Conditions section.

ARTICLE XI - DEVIATIONS/ ALTERNATE PROPOSALS

Bidders desiring to submit proposals on materials, supplies, product, equipment and/or services in substantial conformance to these specifications but not meeting some details of the specifications exactly, shall list the specific deviations in the space provided in the Form of Proposal. Bidders should be aware that such a bid will be thoroughly evaluated but that it also will be considered as an alternate bid within the meaning of Article X and, therefore, the Owner does not obligate itself to award the Contract to such a Bidder although this bid price may be lower than the lowest bid in conformance with these Specifications. The Owner reserves the right to decide which bid most nearly meets the intent of these Specifications.

ARTICLE XII - BIDDERS'S RESPONSIBILITY

Each Bidder is required to familiarize himself with all of the attached forms, including but not necessarily limited to Notice to Bidders, Instructions to Bidders, Special Conditions, Detail Specifications, and form of proposal. Each Bidder will be held responsible to fully comply therewith. Each Bidder must acquaint himself thoroughly with the conditions under which materials, supplies, equipment, product and/or services shall be utilized.

ARTICLE XIII - QUANTITIES

The estimated quantities given in the Special Conditions are for bidding purposes only. **The estimated quantities are based on each municipality's estimated volume for the period. The Owner does not guarantee any given quantity.** The municipalities may purchase more or less than the estimated amounts, and the vendor may not assume that these estimates are a part of the Contract. The vendor shall be required to supply the participating municipalities on an as-needed basis, throughout the Contract duration.

ARTICLE XIV - TAXES

All bid prices are to be less Federal, State or local taxes except as required by law.

JOINT BIDDING SPECIFICATION

SIDEWALK DEICER MATERIAL

ERIE AREA COUNCIL OF GOVERNMENTS

JOINT MUNICIPAL BIDDING COMMITTEE

APRIL 21, 2020

Administered by:

Erie Area Council of Governments
150 East Front St.
Suite 300
Erie, PA 16507
814-454-1770
jhkunco@erieareacog.org

**ERIE AREA COUNCIL OF GOVERNMENTS
JOINT BIDDING COMMITTEE**

SPECIAL CONDITIONS

2020

Sidewalk Deicer Material

General

Bids are requested for a Sidewalk Deicer for Erie County, the City of Erie and Harborcreek and Lawrence Park Townships with the same bid prices available with a delivery charge, if needed, for the following Erie Area Council of Government members and joint bidding participants: the Boroughs of Edinboro, Girard, Wesleyville, Union City and the Townships of Franklin, Girard, Greenfield, LeBoeuf, Millcreek, Summit and Venango. Prices submitted through this joint bid process are for these participants only.

The lowest responsible bidder and the contract award shall be determined by each Municipality calculating the lowest, combined, delivery price for Materials anticipated to be utilized during the contract time.

Bidders are to complete on the space provided in the Form of Proposals, the requested prices for furnishing the materials specified for delivery, and product name, description, and information sheets.

Each Municipality shall determine which products will best meet their needs.

Bidders may include additional detailed material documentation as an attachment.

The estimated yearly volume of Sidewalk Deicer required by the participants follows:

<u>Material requested:</u>	<u>Participant:</u>	<u>Approximate Quantity of 50# bags</u>
Ice Melt compound	County of Erie	275
Ice Melt Compound	City of Erie	200
Ice Melt compound	Harborcreek Twp	49
Ice Melt compound	Lawrence Park Twp	<u>98</u>
<u>Total:</u>		<u>622 bags</u>

Bidders are welcome to submit alternative materials for consideration by the participants in the quantities requested.

Use of Alternate Products shall be evaluated by participants.

Bid Security Not Required.

ERIE AREA COUNCIL OF GOVERNMENTS
JOINT BIDDING COMMITTEE

FORM OF PROPOSAL
2020

Sidewalk Deicer Material

I/We have investigated the availability of the specified products and agree to furnish to the Municipality the specified products at the following prices:

FOR THE REQUESTED QUANTITIES TO BE DELIVERED:

<u>Sidewalk Deicer</u>	<u>Participant:</u>	<u>Number of 50# bags</u>	<u>price per bag</u>
	County of Erie (Courthouse 140 West 6 th St.)	275	
Name of Recommended Product	<u>Snow Shield Purple</u>		<u>\$ 7.15 A Bag</u>
Alternate Product	_____		\$ _____
Alternate Product	_____		\$ _____
	City of Erie (311 Marsh St.)	200	
Name of Recommended Product	<u>Snow shield Purple</u>		<u>\$ 7.15 A Bag</u>
Alternate Product	_____		\$ _____
Alternate Product	_____		\$ _____
	Harborcreek Township (5601 Buffalo Rd)	49	
Name of Recommended Product	<u>Snow shield Purple</u>		<u>\$ 10 A Bag</u>
Alternate Product	_____		\$ _____
Alternate Product	_____		\$ _____
	Lawrence Park Township (4230 Iroquois Ave)	98	
Name of Recommended Product	<u>Snow shield Purple</u>		<u>\$ 9.15 A Bag</u>
Alternate Product	_____		\$ _____
Alternate Product	_____		\$ _____

ERIE AREA COUNCIL OF GOVERNMENTS
JOINT BIDDING COMMITTEE

FORM OF PROPOSAL
2020

Sidewalk Deicer Material

Delivery Requirements: specify minimum quantities, related delivery requirements and any other notes:

Each Pallet has 49/50lb Bags. Each location must place orders for at least the minimum quantity to be delivered that is specified in the bid per delivery

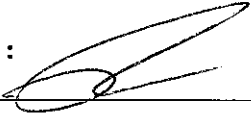
**ERIE AREA COUNCIL OF GOVERNMENTS
JOINT BIDDING COMMITTEE
2020
Sidewalk Deicer Material**

Accompanying this Proposal is a certified check/bid bond (circle one) in the amount of Not Required dollars made payable to the Erie Area Council of Governments, Erie, Pennsylvania, which is agreed, shall be retained as liquidated damages by the Erie Area Council of Governments if the undersigned fails to execute a Contract in conformity with the Contract Documents and furnish any specified bonds within ten (10) days after notification of award of the Contract to the undersigned. It is agreed that this Proposal may not be withdrawn for a period of sixty (60) days from the opening thereof.

I/We hereby certify that I/we have read, understand, and agree to all the conditions outlined in the Solicitation of Bids, Instructions to Bidders, Special Conditions, Detail Specifications, and all other parts of the Document. I am/We are the only person(s) interested in the Proposal as principal(s). This Proposal is made without collusion with any person, firm or corporation.

Company Chemical Equipment less of DE, INC
Address 3900A Providence Rd North Spire PA 19073

ATTEST:

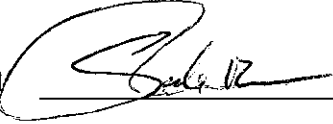


Attest Morgan
(Title)

(SEAL)

Phone 610-497-9390
E-Mail JPM@ChemicalEquipmentless.com

Signed



Name

John P Morgan

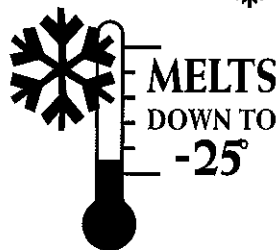
(Type or Print)

Title

Principal

Date

April 30 2020



- SAFER FOR KIDS, PETS & OUR EARTH
- FAST ACTING-DURABLE SUPERIOR STAYING POWER
- MADE WITH CMA



CHEMICAL EQUIPMENT LABS, INC.

3920-A PROVIDENCE ROAD
NEWTOWN SQUARE, PA 19073

P: 610-497-9390 | F: 610-497-9524

CHEMCALEQUIPMENTLABS.COM

Snow Shield™

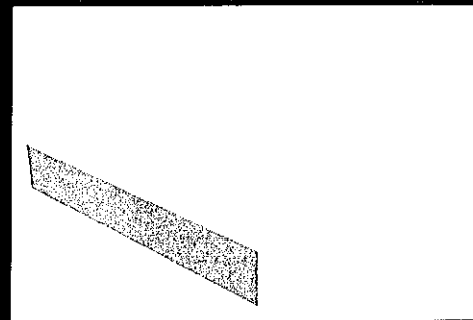
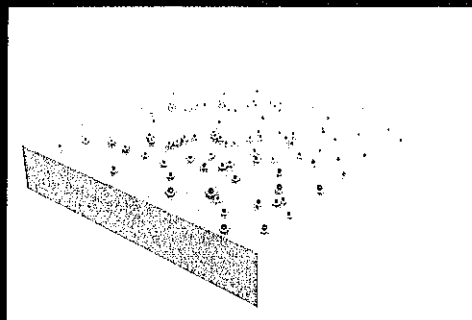
PURPLE ICE MELT

Snow Shield™ Purple Ice Melt is a proprietary formulation of calcium chloride, magnesium chloride, sodium chloride and CMA.

Snow Shield™ Purple Ice Melt is proven to work at lower temperatures while working to preserve vegetation.

Because Snow Shield™ Purple Ice Melt is a blend that melts more effectively than most other products, less is needed to get the job done, meaning less of an environmental impact.

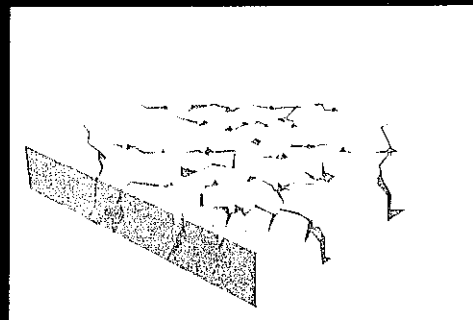
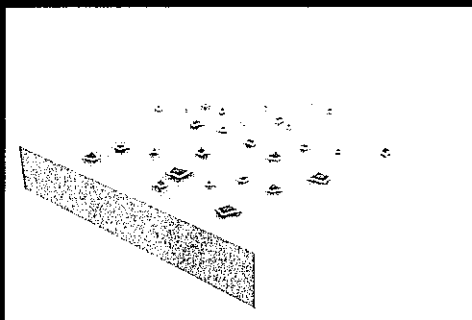
Snow Shield™ Purple Ice Melt is granulated to optimize melting power so there is less wasted material and no wasted time.



Granules that are too small will start melting quickly, but won't penetrate the ice layer to break it apart.

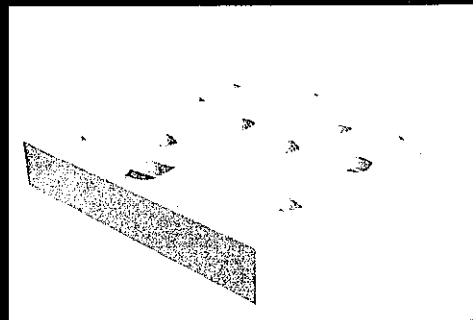
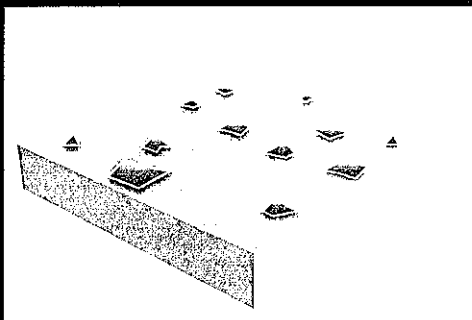
Granules that are too small won't penetrate ice.

Large granules will often penetrate the ice layer but won't dissolve efficiently to create a brine layer.



The consistent, medium sized granules that are used in Snow Shield™ Purple Ice Melt penetrate the ice surface and maximize ice separation, making the removal process as easy as possible.

Snow Shield™ Purple Ice Melt uses consistent granules that optimize melting ability.



Granules that are too large won't dissolve properly.

CHEMICAL EQUIPMENT LABS, INC
Snow Shield Purple
Solid Commercial Deicer
Safety Data Sheet

Section 1: IDENTIFICATION

PRODUCT IDENTIFIER

Snow Shield Purple
Solid Commercial Deicer

RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Deicing/anti-icing highways, bridges, parking lots, and other pavements.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Chemical Equipment Labs, Inc.
3920 A Providence Road
Newtown Square, PA 19073

Contact Information: Telephone: 610-497-9390
Email: ERM@CHEMICALEQUIPMENTLABS.COM
Website: Chemicalequipmentlabs.com

EMERGENCY TELEPHONE NUMBER

CHEMTREC (800) 424-9300
Outside continental USA (703) 527-3887

Section 2: HAZARD(S) IDENTIFICATION

CLASSIFICATION ACCORDING TO OSHA HAZCOM 2012

Hazard Class Not classified as hazardous

LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

There are no OSHA required label elements for this product.

CLASSIFICATION ACCORDING TO WHMIS (Canada)

Hazard Class Not controlled
WHMIS Hazard Symbols Not applicable
WHMIS Signal Word Not applicable

POTENTIAL HEALTH EFFECTS

Eye Contact May cause temporary eye irritation. Corneal injury is unlikely.
Skin Contact Repeated contact may cause slight skin irritation or dry skin.
Inhalation may cause irritation or coughing.
Ingestion Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.
Effects of repeated exposure No effects other than described above are expected.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSITION: Snow Shield Purple is a blend of four ice melting chemicals.

MIXTURES

Ingredient	CAS No	Wt. %
Sodium Chloride	7647-14-5	90% - 95%
Calcium Chloride	10043-52-4	Proprietary
Magnesium Chloride	7791-18-6	Proprietary
CMA – Calcium Magnesium Acetate	76123-46-1	Proprietary
The "exact percentage (concentration)" of composition has been withheld as a trade secret for the Calcium Chloride, Magnesium Chloride and CMA- Calcium Magnesium Acetate		

Section 4: FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURE

Eye	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, seek medical attention.
Skin	As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.
Inhalation	If inhaled, move to fresh air and get medical advice.
Ingestion	If swallowed, give milk or water to drink and telephone for medical advice. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS / EFFECTS

Eye	May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Skin	As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.
Inhalation	Inhalation of dust during handling may cause respiratory tract irritation and coughing.
Ingestion	Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Specific treatments	If you feel unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.
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Section 5: FIRE FIGHTING MEASURES

FLAMMABILITY

Flash Point (close up) Nonflammable by OSHA/WHMIS criteria

Auto Ignition Not applicable

EXTINGUISHING MEDIA

Suitable Extinguishing Media Water, carbon dioxide, or dry chemical. Use extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media Not applicable

SPECIAL HAZARDS

Hazardous Combustion Products Normal combustion forms carbon dioxide and water

Explosion Limits Data not available. Not considered to be explosion hazard.

Unusual Fire Hazard None expected

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters

Wear NIOSH approved self-contained breathing apparatus (SCBA) with positive air pressure.

Section 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Avoid eye/skin contact with spilled material. Refer to Section 7 for additional handling precautions

Methods for Containment If material is dissolved, contain and/or absorb spill with inert material (e.g. sawdust, sand, vermiculite).

Methods for Cleaning-UP Scoop up material and transfer to disposal container. If needed, was spillage area with plenty of water.

Section 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handling Avoid eye contact. Avoid breathing dust when handling.

PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY COMPATIBILITIES

Storage

Store in tightly sealed original containers, away from direct heat and strong oxidizing agents. Do not store or handle product in systems constructed of wetted parts consisting of galvanized steel, zinc, or brass components.

Section 8: CONTROLS/PERSONAL PROTECTION**EXPOSURE LIMITS****TWA PEL:**

No specific limits have been established for this product. As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 8-hour TWA of 15mg/m³ (total particulate) and 5 mg/m³ (respirable fraction).

TWA TLV:

No specific limits have been established for this product. As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insoluble) Not Otherwise Classified (PNOC): 8- Hour TWA limits of 10 mg/m³ (as total dust) and 3 mg/m³ (as respirable)

EXPOSURE CONTROLS**Engineering Controls**

No special ventilation is usually necessary; however if operating conditions create high concentration of this material, special ventilation may be needed to keep exposure to airborne contaminants below the exposure limit.

INDIVIDUAL PROTECTIVE MEASURES/PERSONAL PROTECTIVE EQUIPMENT**Eye Protection**

Safety glasses or goggles are recommended if eye exposure to product or dust is possible.

Skin Protection

Chemical-resistant gloves and clothing should be used if prolonged exposure is possible to prevent drying of skin.

Respiratory Protection

Breathing of dust should be avoided. If operating conditions create high airborne concentrations of this material, the use of an approved respirator is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Purple Colored Crystals
ODOR	Odorless
ODOR THRESHOLD	No data available
Ph (20°C, 68°F)	8-10 (10% aqueous solution)
MELTING POINT	Decomposes
BOILING POINT	Not applicable
FLASH POINT	Not applicable
EVAPORATION RATE	No data available
FLAMMABILITY/EXPLOSION LIMITS	Not applicable
VAPOR PRESSURE (20°C)	Not applicable
VAPOR DENSITY (AIR = 1)	Not applicable
RELATIVE DENSITY	No data available
SOLUBILITY IN WATER	Partially soluble
PARTITION COEFFICIENT; n-OCTANOL/WATER	No data available
AUTO-IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY (20°C)	Not applicable
OXIDIZING PROPERTIES	Not oxidizing
EXPLOSIVE PROPERTIES	Not explosive

Section 10: STABILITY AND REACTIVITY

REACTIVITY

No dangerous reactions known under conditions of normal use.

CHEMICAL STABILITY

Stable. Polymerization will not occur.

POSSIBILITY OF HAZARDOUS REACTIONS

Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas from the oxidation of these materials may accumulate over time.

INCOMPATIBLE MATERIALS

Strong oxidizing agents; strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

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May decompose into oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD50 rat-oral: 300 mg/kg

LC50 rat-inhalation: >5000 mg/m³

LD50 rat-dermal: >5000 mg/kg

Dermal irritation rabbit: Non-irritating

Ocular irritation rabbit: Moderate redness/discharge and some swelling of iris at 1 hr.; insignificant signs of irritation at 24 hr.; all signs cleared at 72 hr.

Sub-chronic oral: No effects after 28 consecutive days dosing at 100 mg/kg/day.

LIKELY ROUTES OF EXPOSURE

Skin contact, eye contact, ingestion

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

Eye	May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Skin	May cause itching or irritation of any cut or abraded skin. Symptoms of prolonged contact may include dry skin.
Inhalation	Inhalation of dust during handling may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.
Ingestion	Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE/NUMERICAL MEASURES OF TOXICITY

Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Based on available data, the classification criteria are not met.
Respiratory or Skin Sensitization	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	This product does not contain any ingredients that are considered to be carcinogens by IARC, NTP, or OSHA.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
STOT-Single Exposure	Based on available data, the classification criteria are not met.
STOT-Repeated Exposure	Based on available data, the classification criteria are not met.
Aspiration Hazard	Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

ECOTOXICITY (AQUATIC AND TERRESTRIAL)

Not expected to cause long-term adverse effects in the aquatic or terrestrial environments.

PERSISTENCE AND DEGRADABILITY

Readily biodegradable. COD (TOD): 0.75 g O₂/g deicer; BOD₂₀ (20°C): 0.40 g O₂/g deicer, BOD₂₀ (10°C): 0.67

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BIOACCUMULATIVE POTENTIAL

Bioaccumulation is not expected.

Section 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT AND METHODS OF DISPOSAL

Based on available information, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified as a characterized waste under RCRA. This product may be absorbed onto suitable materials and disposed of in a sanitary landfill unless local, state, or provincial regulations prohibit such disposal.

Section 14: TRASPOT INFORMATION

TRANSPORT INFORMATION

Not regulated as dangerous goods per US DOT or IATA.

Section 15: REGULATORY INFORMATION

INVENTORY LISTS

All of the components in this product are on the following inventory lists: USA (TSCA), Canada (DSL/NDSL), Europe (EINECS)

TSCA SECTION 12(b)

None of these chemicals in this are listed under TSCA Section 12(b).

CERCLA HAZARDOUS SUBSTANCES

There is no CERCLA Reportable Quantity for this material

SARA 311 CATEGORIES

Immediate (Acute) Health Hazard:	Yes
Delayed (Chronic) Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

SARA 313

None of the components in this product are subject to reporting under SARA Section 313.

CLEAN WATER ACT

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.

STATE RIGHT-TO-KNOW

This product does not contain components at levels which are required to be reported under the statutes of the following: PA, MA, MN, and NJ.

This product does not contain materials known to the State of California (Proposition 65) to cause cancer and/or reproductive harm at levels which would require a warning under the statute.

NFPA 704	
Health	1
Fire	0
Physical Hazard	0
Hazard Rating: 0-4 0-least hazardous; 4-most hazardous	

HMIS – Hazardous Materials Identification System	
Health	1
Fire	0
Physical Hazard	0
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe	

Section 16: OTHER INFORMATION**SDS REVISION DATE**

Revision date: September 15, 2016

Expiration date: September 15, 2019

Latest version of this SDS can be obtained from Chemical Equipment Labs, Inc.

NOTE TO EMPLOYER

This Safety Data Sheet contains environmental, health and toxicology information for your employees. Please ensure this information is provided to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in your SDS. Discard any previous edition of this SDS.

DISCLAIMER

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Chemical Equipment Labs, Inc. makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for the reliance thereon. Chemical Equipment Labs, Inc. assumes no responsibility for any injury or loss resulting from the use of the product described herein. User should satisfy himself that he has all current data relevant to his particular use.

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End of Safety Data Sheet