Clear Roads Qualified Product List - PRODUCTS Date of Listing: January 1, 2020



Category 1 - Corrosion Inhibited Liquid Magnesium Chloride

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|------------------------------|------------------------------|--------------------------------|-----------------|---------------|------------|
| Iceban 200* | Earth Friendly Chem. | 8.4 | 26% | 8/15/2002 | 12/31/2024 |
| Caliber M1000 AP | Envirotech Services Inc. | 20.8 | 28% | 8/2/2004 | 12/31/2024 |
| Meltdown with Shield AP | Envirotech Services Inc. | 25.9 | 30% | 8/2/2004 | 12/31/2024 |
| Hydro-Melt Green | Cargill | 24.3 | 28.5% | 8/1/2005 | 12/31/2024 |
| Meltdown APEX with Shield AP | Envirotech Services Inc. | 25.1 | 30% | 1/25/2006 | 12/31/2024 |
| FreezGard CI Plus | Compass Minerals | 12.2 | 30% | 8/28/2006 | 12/31/2024 |
| Ice B'Gone II HF | Sears Ecological Appl. | 28.6 | 25% | 8/9/2007 | 12/31/2024 |
| FreezGard LITE CI Plus | Compass Minerals | 12.3 | 27% | 6/13/2011 | 12/31/2024 |
| HydroMelt Liquid Deicer | Cargill | 28 | 28.6% | 8/15/2011 | 12/31/2024 |
| FreezGard CI Plus Sub Zero | Compass Minerals | 14.1 | 27.5% | 10/11/2011 | 12/31/2024 |
| Ice Ban 305 | GMCO Corporation | 25.3 | 26.6% | 1/10/2013 | 12/31/2024 |
| FreezGard 0 CCI | GMCO Corporation | 21.2 | 30.0% | 1/10/2013 | 12/31/2024 |
| Meltdown Apex | Envirotech Services Inc. | 22.4 | 30.0% | 4/16/2014 | 12/31/2024 |
| Meltdown Inhibited | Envirotech Services Inc. | 24.1 | 30.0% | 4/29/2014 | 12/31/2024 |
| ProMelt MAG 30 INH | Innovative Surface Solutions | 25.2 | 30.0% | 7/31/2015 | 12/31/2024 |
| ProMelt Ultra 1000 INH | Innovative Surface Solutions | 28.2 | 27.0% | 7/31/2015 | 12/31/2024 |
| NexGen Torch | GMCO Corporation | 25 | 30.0% | 12/17/2015 | 12/31/2024 |
| NexGen Liquid De-Icer | Paradigm Group | 25 | 30.0% | 5/12/2017 | 12/31/2024 |

Note-Iceban 200 was formerly Iceban Performance Plus M

Those products marked with an asterisk (*) indicates that the stratification can be seen and agitation is required.

Category 2 - Corrosion Inhibited Liquid Calcium Chloride

| Category E Corrector ministrea Enquia Calorati Chiertae | | | | | | | |
|---|--------------------------|--------------------------------|-----------------|---------------|------------|--|--|
| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration | | |
| Liquid Dow Armor | Dow Chemical | 26 | 30% | 6/25/1999 | 12/31/2024 | | |
| Winter Thaw DI | Tetra Technologies | 16.5 | 32% | 9/13/1999 | 12/31/2024 | | |
| Corguard TG | Tiger Calcium Services | 27.7 | 29% | 1/9/2001 | 12/31/2024 | | |
| Road Guard Plus | Tiger Calcium Services | 16 | 25% | 6/5/2006 | 12/31/2024 | | |
| Calcium Chloride with Boost (CCB) | America West | 18.4 | 32% | 4/10/2014 | 12/31/2024 | | |
| MeltDown Apex-C | EnviroTech Services Inc. | 24.5 | 29% | 8/21/2015 | 12/31/2024 | | |
| C1000 Pro | EnviroTech Services Inc. | 28 | 27% | 9/8/2015 | 12/31/2024 | | |

Category 3 - Non Corrosion Inhibited Liquid Calcium Magnesium Acetate

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|----------------|-------------------------|--------------------------------|-----------------|---------------|------------|
| Liquid CMA 25% | Cryotech | -11 | 25% | 5/19/1998 | 12/31/2024 |
| SC CMA 25% | Sure Crop Farm Services | -2.8 | 25% | 9/13/1999 | 12/31/2024 |

Category 4 - Corrosion Inhibited Solid Sodium Chloride

Category 4A- Corrosion Inhibited Solid Sodium Chloride (Corrosion Percent Effectiveness of 30% or less)

| Category Int Controller Intiliation Controller Controll | | | | | | |
|--|--------------------------|--------------------------------|-----------------|---------------|------------|--|
| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration | |
| Inhibited Ice Slicer | Envirotech | 30 | N/A | 5/19/1998 | 12/31/2024 | |
| CG-90 Non-Phosphate 2.8% | Cargill | 27 | N/A | 5/19/1998 | 12/31/2024 | |
| IMC CI SALT A 3.5 | Compass Minerals | 28 | N/A | 8/21/2001 | 12/31/2024 | |
| IMC CI SALT B 4.5 | Compass Minerals | 18.6 | N/A | 8/21/2001 | 12/31/2024 | |
| Clear Lane PNS Enhanced Deicer | Cargill | 28.9 | N/A | 8/1/2005 | 12/31/2024 | |
| Ice Slicer Elite | Envirotech Services Inc. | 16 | N/A | 8/1/2005 | 12/31/2024 | |

Category 4B- Corrosion Inhibited Solid Sodium Chloride - Modified Gradation (Corrosion Percent Effectiveness 31% to 85%)

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|-----------------------------|--------------|--------------------------------|-----------------|---------------|------------|
| Ice Slicer RS | Redmond | 80 | N/A | 10/13/2009 | 12/31/2024 |
| Ice Slicer Super Blend Plus | Redmond | 60.4 | N/A | 10/13/2009 | 12/31/2024 |

Category 4C- Corrosion Inhibited Solid Sodium Chloride - Standard Gradation (Corrosion Percent Effectiveness 31% to 85%)

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|----------------------------|--------------------------|--------------------------------|-----------------|---------------|------------|
| Clear Lane Enhanced Deicer | Cargill | 54.3 | N/A | 10/2/2015 | 12/31/2024 |
| Ice Kicker | SaltWorx | 50 | N/A | 7/5/2016 | 12/31/2024 |
| SOS Treated Salt | Envirotech Services Inc. | 66.4 | N/A | 5/12/2017 | 12/31/2024 |
| Ice Slicer CB | Envirotech Services Inc. | 61.3 | N/A | 5/12/2017 | 12/31/2024 |
| Leed Melt G500 | Leed Salt | 67.7 | N/A | 6/6/2018 | 12/31/2024 |

Category 5 - Corrosion Inhibited Sodium Chloride Plus 10% Magnesium Chloride (Solid)

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|-------------------------|--------------|--------------------------------|-----------------|---------------|------------|
| CG-90 Surface Saver 10% | Cargill | 15 | N/A | 5/19/1998 | 12/31/2024 |
| Meltdown 10 | Envirotech | 30 | N/A | 5/19/1998 | 12/31/2024 |
| Surface Saver PNS 10% | Cargill | 27.2 | N/A | 8/21/2001 | 12/31/2024 |

Category 6 - Corrosion Inhibited Sodium Chloride Plus 20% Magnesium Chloride (Solid)

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|-------------------------|--------------------------|--------------------------------|-----------------|---------------|------------|
| CG-90 Surface Saver 22% | Cargill | 26 | N/A | 5/19/1998 | 12/31/2024 |
| Meltdown 20 | Envirotech Services Inc. | 27 | N/A | 8/8/2000 | 12/31/2024 |
| Surface Saver PNS 20% | Cargill | 22 | N/A | 8/21/2001 | 12/31/2024 |

Category 7 - Calcium Magnesium Acetate (Solid)

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|--------------|--------------|--------------------------------|-----------------|---------------|------------|
| CMA | Cryotech | -7 | 96% | 5/19/1998 | 12/31/2024 |

Category 8 - Non Corrosion Inhibited Solid Sodium Chloride

CATEGORY 8A-B Standard Gradation, Brining Salt, Insoluble Material less than 1%, and Moisture less than 0.5%.

| Product Name | Manufacturer | Date Approved | Expiration |
|----------------------|------------------|---------------|------------|
| DriRox Coarse Salt* | Compass Minerals | 9/21/2012 | 12/31/2024 |
| Bulk Coarse Solar | Morton Salt | 4/21/2006 | 12/31/2024 |
| Intrepid Coarse Salt | Intrepid Potash | 6/3/2010 | 12/31/2024 |
| Kiln Dry Coarse Salt | Broken Arrow | 12/17/2015 | 12/31/2024 |
| Salt | Surplus Salt | 1/30/2019 | 12/31/2024 |

^{*} Product was renamed from NASC Salt (Coarse). The product has been approved since 8/2000.

CATEGORY 8A-R Standard Gradation, Road Salt, Insoluble Material less than 10%, and Moisture less than 0.5%.

| Product Name | Manufacturer | Date Approved | Expiration |
|------------------------------|-----------------------|---------------|------------|
| Cargill Dry Salt | Cargill | 6/1/1998 | 12/31/2024 |
| Rocanville Standard | NSC Minerals | 6/1/1998 | 12/31/2024 |
| DriRox Coarse Salt* | Compass Minerals | 9/21/2012 | 12/31/2024 |
| Kayway Salt (Coarse) | Kayway Industries | 12/23/2003 | 12/31/2024 |
| Bulk Coarse Solar | Morton Salt | 4/26/2005 | 12/31/2024 |
| Ice Slicer Super Blend | Redmond Mineral | 8/2/2006 | 12/31/2024 |
| ISCO Bulk Rock Salt | K+S | 6/23/2008 | 12/31/2024 |
| Natural Alternative Ice Melt | NaturaLawn of America | 5/17/2010 | 12/31/2024 |
| Intrepid Coarse Salt | Intrepid Potash | 6/3/2010 | 12/31/2024 |
| Kiln Dry Coarse Salt | Broken Arrow | 12/17/2015 | 12/31/2024 |
| Vanscoy Coarse | NSC Minerals | 12/5/2017 | 12/31/2024 |
| Sodium Chloride | Independent Salt Co. | 12/5/2017 | 12/31/2024 |
| Bulk Rock Salt | Hutchinson Salt Co. | 1/17/2018 | 12/31/2024 |
| VS Rock Salt | Valley Salt Co | 6/6/2018 | 12/31/2024 |
| Bulk Deicing Salt | Lyons Salt** | 9/12/2018 | 12/31/2024 |
| Salt | Surplus Salt LLC | 1/30/2019 | 12/31/2024 |

^{*} Product was renamed from NASC Salt (Coarse). The product has been approved since 8/2000.

CATEGORY 8B - Insoluble Material less than 10%, and Moisture less than 5.0%.

| Product Name | Manufacturer | %Moisture | Date Approved | Expiration |
|---------------|------------------|-----------|---------------|------------|
| Ice Slicer RS | Redmond Mineral | 1.95 | 2/9/2003 | 12/31/2024 |
| QwikSalt | Compass Minerals | 2.54 | 6/30/2004 | 12/31/2024 |

^{**} Formerly Central Salt

| Type C Treated Salt | Broken Arrow | 2.94 | 8/2/2004 | 12/31/2024 |
|-----------------------|--------------------------|------|-----------|------------|
| SS-5.0 | Shelton's Salt | 0.90 | 9/16/2004 | 12/31/2024 |
| Bulk Type C Road Salt | Morton Salt | 2.63 | 4/26/2005 | 12/31/2024 |
| ESSA Salt | ESSA | 0.84 | 6/26/2007 | 12/31/2024 |
| Rapid Thaw | Broken Arrow | 2.49 | 3/4/2009 | 12/31/2024 |
| Bulk Deicing Salt | Lyons Salt | 0.24 | 6/24/2013 | 12/31/2024 |
| Ice Kicker | SaltWorx | 3.10 | 5/12/2017 | 12/31/2024 |
| Ice Slicer CB | Envirotech Services Inc. | 0.59 | 5/12/2017 | 12/31/2024 |
| VS Rock Salt | Valley Salt Co | 0.17 | 6/6/2018 | 12/31/2024 |

CATEGORY 8C-B Fine Gradation, Brining Salt, Insoluble Material less than 1%, and Moisture less than 0.5%.

| Product Name | Manufacturer | Date Approved | Expiration |
|-------------------------------|------------------|---------------|------------|
| Rocanville Standard | NSC Minerals | 3/1/2006 | 12/31/2024 |
| Rocanville Fine | NSC Minerals | 3/1/2006 | 12/31/2024 |
| Rocanville Standard Road Salt | NSC Minerals | 10/6/2006 | 12/31/2024 |
| Medium Solar Salt | Compass Minerals | 8/12/2009 | 12/31/2024 |
| Mixing Solar Salt | Compass Minerals | 8/12/2009 | 12/31/2024 |
| Intrepid Medium Salt | Intrepid Potash | 6/3/2010 | 12/31/2024 |
| Kiln Dry Medium Salt | Broken Arrow | 12/17/2015 | 12/31/2024 |

CATEGORY 8C-R, Fine Gradation, Road Salt, Insoluble Material less than 10% and Moisture less than 0.5%.

| Product Name | Manufacturer | Date Approved | Expiration |
|-------------------------------|--------------------|---------------|------------|
| Rocanville Standard | NSC Minerals | 3/1/2006 | 12/31/2024 |
| Vanscoy Standard | NSC Minerals | 3/1/2006 | 12/31/2024 |
| Rocanville Fine | NSC Minerals | 3/1/2006 | 12/31/2024 |
| Rocanville Standard Road Salt | NSC Minerals | 10/6/2006 | 12/31/2024 |
| Medium Solar Salt | Compass Minerals | 8/12/2009 | 12/31/2024 |
| Mixing Solar Salt | Compass Minerals | 8/12/2009 | 12/31/2024 |
| Intrepid Medium Salt | Intrepid Potash | 6/3/2010 | 12/31/2024 |
| Ice Slicer Near Zero | Redmond Minerals | 12/3/2010 | 12/31/2024 |
| Kiln Dry Medium Salt | Broken Arrow | 12/17/2015 | 12/31/2024 |
| Bulk Fine Salt | Hutchinson Salt Co | 6/6/2018 | 12/31/2024 |

Category 9 - Corrosion Inhibited Liquid Sodium Chloride

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|-------------------------------------|---------------------|--------------------------------|-----------------|---------------|------------|
| Salt Brine + Brine CI | Cargill | 25.4 | 23.3 | 8/12/2009 | 12/31/2024 |
| Brine with Headwaters Inhibitor | Rivertop Renewables | 25.6 | 22.5 | 11/24/2014 | 12/31/2024 |
| Brine with Headwaters 10F Inhibitor | Rivertop Renewables | 26.7 | 22.4 | 11/24/2014 | 12/31/2024 |

Category 10 - Corrosion Inhibited Liquid Sodium Chloride Plus Calcium Chloride

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration | l |
|--------------|--------------|--------------------------------|-----------------|---------------|------------|---|
|--------------|--------------|--------------------------------|-----------------|---------------|------------|---|

| TC Econo* | Tiger Calcium Services | 20.5 | 20/2 ⁽¹⁾ | 8/12/2009 | 12/31/2024 |
|------------------|---------------------------|------|-------------------------|-----------|------------|
| Beet Heet Severe | K-Tech Specialty Coatings | 21.1 | 15.3/5.4 ⁽²⁾ | 7/13/2011 | 12/31/2024 |
| ESB | America West | 21.0 | 18.8/2.3 ⁽³⁾ | 4/14/2014 | 12/31/2024 |
| SO-CAL | Custom Spray Services | 27.8 | 20.8/2.5 ⁽⁴⁾ | 4/14/2014 | 12/31/2024 |

- 1 20% NaCl and 2% CaCl₂
- 2 15.3% NaCl and 5.4% CaCl₂
- 3- 18.8% NaCl and 2.3% CaCl₂
- 4 20.8% NaCl and 2.5% CaCl₂

Category 11 - Corrosion Inhibited Liquid Chloride Blended Brines

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|---------------------|------------------------|--------------------------------|---------------------|---------------|------------|
| Road Guard Plus* | Tiger Calcium Services | 16 | 27 ⁽¹⁾ | 8/12/2009 | 12/31/2024 |
| Road Guard TC | Tiger Calcium Services | 21.3 | 32.1 ⁽²⁾ | 8/12/2009 | 12/31/2024 |
| Road Guard XCEL | Tiger Calcium Services | 20.3 | 33.2 ⁽³⁾ | 8/12/2009 | 12/31/2024 |
| IB 7/93-Thermapoint | Millennium Roads | 24 | 26.7 ⁽⁴⁾ | 5/1/2013 | 12/31/2024 |

- 1 25% Calcium Chloride and 2% Magnesium Chloride
- 1 27.3% Calcium Chloride and 4.8% Magnesium Chloride
- 2 28.5% Calcium Chloride and 4.7% Magnesium Chloride
- 4 17.8% Calcium Chloride, 5.4% Sodium Chloride, and 3.5% Magnesium Chloride

Those products marked with an asterisk (*) indicates that the stratification can be seen and agitation is required.

PNS Experimental Category - Approved Liquid Corrosion Inhibited Products

| Product Name | Manufacturer | Corrosion Rate % Effectiveness | % Concentration | Date Approved | Expiration |
|--------------------------------------|------------------------------|--------------------------------|------------------------|---------------|------------|
| CF-7 | Cryotech | 0.0 | 50.0 ⁽¹⁾ | 6/20/2001 | 12/31/2024 |
| CMAK | Cryotech | 0.0 | 12.5/25 ⁽²⁾ | 6/20/2001 | 12/31/2024 |
| NC 3000 | Glacial Technologies | -3.5 | 25.0 ⁽³⁾ | 3/13/2002 | 12/31/2024 |
| Alpine Ice-Melt | Nachurs Alpine Sol. Ind. | -4.8 | 50.0 ⁽⁴⁾ | 6/23/2008 | 12/31/2024 |
| Fusion 60/40 | Eco Solutions | 22.1 | 15.0 ⁽⁵⁾ | 11/23/2009 | 12/31/2024 |
| Beet Heet Concentrate*** | K-Tech | 14.8 | 21.7 ⁽⁶⁾ | 9/26/2012 | 12/31/2024 |
| AquaSalina+ | Nature's Own Source | 26.4 | 22.5 ⁽⁷⁾ | 9/19/2013 | 12/31/2024 |
| Isoway | Omex Environmental | -5.1 | 25.0 ⁽⁸⁾ | 4/15/2014 | 12/31/2024 |
| Geomelt S7 | SNI Solutions | 25.9 | 18.1 ⁽⁹⁾ | 4/17/2014 | 12/31/2024 |
| SOS AP*** | Envirotech Services Inc. | 21.0 | 26.0 ⁽¹⁰⁾ | 4/18/2014 | 12/31/2024 |
| SOS Inhibited*** | Envirotech Services Inc. | 25.3 | 26.0 ⁽¹¹⁾ | 8/28/2014 | 12/31/2024 |
| AQ+IceBite Liquid Brine Deicer | Nature's Own Source | 11.4 | 20.4 ⁽¹²⁾ | 8/28/2014 | 12/31/2024 |
| Ecolution Liquid Deicer | State Industrial Products | 26.5 | 24.6 ⁽¹³⁾ | 8/28/2014 | 12/31/2024 |
| Ice Bite S | Road Solutions Inc. | 15.0 | 22.1 ⁽¹⁴⁾ | 10/21/2014 | 12/31/2024 |
| XO-Melt ₂ | K-Tech | 22.9 | 24.5 ⁽¹⁵⁾ | 11/3/2014 | 12/31/2024 |
| Biomelt AG7 | SNI Solutions | 26.3 | 18.3 ⁽¹⁶⁾ | 10/2/2015 | 12/31/2024 |
| Green Blast*** | Cargill | 27.8 | 28.0 ⁽¹⁷⁾ | 10/2/2015 | 12/31/2024 |
| SOS-C Inhibited*** | Envirotech Services Inc. | 24.7 | 29.1 ⁽¹⁸⁾ | 3/11/1016 | 12/31/2024 |
| Husker Plus | Smith Fertilizer and Grain | 10.2 | 54.0 ⁽¹⁹⁾ | 7/7/2016 | 12/31/2024 |
| BetterBrine Pro powered by AMP | Envirotech Services Inc. | 26.1 | 21.6 ⁽²⁰⁾ | 11/18/2016 | 12/31/2024 |
| ProMelt Ultra 2000 Inh | Innovative Surface Solutions | 29.6 | 24.0 ⁽²¹⁾ | 5/12/2017 | 12/31/2024 |
| Magic Minus Zero (Concentrate)*** | Innovative Surface Solutions | 11.8 | 23.0 ⁽²²⁾ | 10/25/2017 | 12/31/2024 |
| Magic Minus Zero (Brine Enhancer)*** | Innovative Surface Solutions | 23.1 | 22.9 ⁽²³⁾ | 10/25/2017 | 12/31/2024 |
| Beet Heet Concentrate MN*** | K-Tech | 25.3 | 23.8 ⁽²⁴⁾ | 5/16/2018 | 12/31/2024 |
| Beet 55+ | Smith Fertilizer and Grain | 13.0 | 20.0 ⁽²⁵⁾ | 2/1/2019 | 12/31/2024 |

PLEASE REFER TO THE FOLLOWING FOOTNOTES REGARDING SPECIFIC EXPERIMENTAL PRODUCT INFORMATION

- 1 50% Potassium Acetate
- 2 12.5% Calcium Magnesium Acetate and 25% Potassium Acetate
- 3 The product contains a 25% Potassium Acetate concentration. The product also contains 30% Carbohydrate material which is still under consideration as an active ingredient but at this time has not be included.
- 4 50% Potassium Acetate
- 5 15.0% Sodium Chloride, blend of 60% Fusion/ 40% Salt Brine
- 6 Total Chloride Salt Blend with CaCl₂-11.9%, MgCL₂- 3.4%, KCL-2.7%, NaCl-3.7% . Carbohydrate content-28.8%. ***Material approved as a pre-wet material to solid salt. Not for direct application as a liquid deicer.
- 7 Total Chloride Salt Blend with CaCl₂-9.0%, MgCL₂- 2.5%, and NaCl-11.0%.

- 8 25% Potassium Acetate
- 9 18.1% Sodium Chloride, blend of 30% Geomelt 55/70% Salt Brine.
- 10 26.0% MgCl₂ with a thicking additive. ***Material approved as a pre-wet material to solid salt. Not for direct applications as a liquid deicer.
- 11 26.0% MgCl₂ with a thicking additive. ***Material approved as a pre-wet material to solid salt. Not for direct applications as a liquid deicer.
- 12 Total Chloride Salt Blend with NaCL-13.0% and CaCl₂-7.4%, blended with 15% IceBite.
- 13 Total Chloride Salt Blend with CaCl₂-9.8%, MgCL₂- 2.3%, and NaCl-12.5%.
- 14 22.1% Sodium Chloride.
- 15 Total Chloride Salt Blend with CaCl2-12.3%, MgCL2- 2.1%, and NaCl-10.1%.
- 16 18.3% Sodium Chloride, blend of 30% Biomelt AG/ 70% Salt Brine.
- 17 28.0% Magnesium Chloride with a thicking additive. ***Material approved as a pre-wet material to solid salt. Not for direct application as a liquid deicer. Material becomes very viscous at near 0°F temperatures.
- 18 Total Chloride Salt Blend with CaCl₂- 26.9%, MgCL₂- 2.2% ***Material approved as a pre-wet material to solid salt. Not for direct application as a liquid deicer.
- 19 54% Mixed Matrix Organic/Inorganic Salt Compounds.
- 20 Total Chloride Salt Blend with NaCl -18.2% and MgCl₂ 3.4%
- 21 24% Magnesium Chloride
- 22 23% Magnesium Chloride. A 80/20 mixture of magnesium chloride with an organic agricultural product. Material resulted in a final pH of 4.1 as accepted by the PNS. ***Material approved as a pre-wet material to solid salt. Not for direct application.
- 23 Total Chloride Salt Blend with NaCl 15.5% and MgCL₂- 7.4%. This is a 70/30 blend of salt brine with the Magic Minus Zero Concentrate.

 Material resulted in a final pH of 4.5 as accepted by the PNS. ***Material approved as a pre-wet material to solid salt. Not for direct application.
- 24 Total Chloride Salt Blend with CaCl₂-15.2%, KCL-2.5%, NaCl-6.1%. Carbohydrate content-26.7%. ***Material approved as a pre-wet material to solid salt. Not for direct application as a liquid deicer.
- 25 Calcium 11.3%, sodium 5.5%, potassium 3.2% and less than 2% magnesium.

Clear Roads Qualified Product List - INHIBITORS Date of Listing: January 1, 2020

Category A1 - Corrosion Inhibitor for Sodium Chloride Brine (Minimum 21% NaCl)

| Product Name | Manufacturer | % NaCl | % Additive | Class | % Effectiveness | Date Approved | Expiration |
|------------------------------------|--------------------------|--------|------------|-------|-----------------|---------------|------------|
| ArctiClear CI Plus | Compass Minerals | 21.2 | 5.0 | 1 | 21.3 | 12/3/2010 | 12/31/2024 |
| Headwaters Corrosion Inhibitor | Rivertop Renewables | 22.5 | 3.5 | 1 | 24.9 | 4/15/2014 | 12/31/2024 |
| Shield GLT Plus | Paradigm Chemical | 22.6 | 5.0 | 1 | 28.7 | 4/15/2014 | 12/31/2024 |
| Headwaters 10F Corrosion Inhibitor | Rivertop Renewables | 22.4 | 4.5 | 1 | 26.7 | 7/18/2014 | 12/31/2024 |
| GLT-H | Paradigm Group | 23.0 | 8.0 | 1 | 26.0 | 2/1/2019 | 12/31/2024 |
| Ecoprotecht-NL | Eco-rrosion Technologies | 21.7 | 7.0 | 1 | 21.6 | 1/1/2020 | 12/31/2024 |

Category A2 - Corrosion Inhibitor for Sodium Chloride and Calcium Chloride Brine (Minimum 15% NaCl & 2% CaCl₂)

| Product Name | Manufacturer | % NaCl | % CaCl ₂ | % Additive | Type/Class | % Effectiveness | Date Approved | Expiration |
|--------------|--------------|--------|---------------------|------------|------------|-----------------|---------------|------------|
| Boost SB | America West | 18.8 | 2.3 | 20 | 1/2 | 21.0 | 4/14/2014 | 12/31/2024 |

Category A3 - Corrosion Inhibitor for Sodium Chloride (Minimum 15% NaCl)

| Product Name | Manufacturer | % NaCl | % Additive | Class | % Effectiveness | Date Approved | Expiration |
|---------------------|--------------------------|--------|------------|-------|-----------------|---------------|------------|
| ArtiClear Gold | Compass Minerals | 18.8 | 15 | 2 | 26.6 | 12/3/2010 | 12/31/2024 |
| Beet 55 Concentrate | Smith Fertilizer & Grain | 17.2 | 35 | 2 | 23.1 | 9/19/2013 | 12/31/2024 |
| Geomelt 55 | SNI Solutions | 18.1 | 30 | 2 | 25.9 | 4/17/2014 | 12/31/2024 |
| Biomelt AG | SNI Solutions | 18.3 | 30 | 2 | 26.3 | 10/2/2015 | 12/31/2024 |
| AMP | Envirotech Services | 18.2 | 20 | 2 | 26.1 | 4/4/2016 | 12/31/2024 |