

Pacific Northwest Snow Fighters (PNS) Qualified Product List
Date of Listing: March 4, 2009
Category 1 - Corrosion Inhibited Liquid Magnesium Chloride

Product Name	Manufacturer	Corrosion Rate % Effectiveness	% Concentration	Date Approved
Magnum*	America West	17	29%	5/19/1998
HydroMelt	Cargill	23.4	30%	5/10/2000
ICEBAN 200*	Earth Friendly Chem.	8.4	26%	8/15/2002
MeltDown - Shield LSW*	Envirotech Services Inc.	23.5	30%	10/8/2002
Caliber M1000 AP	Envirotech Services Inc.	20.8	28%	8/2/2004
MeltDown with Shield AP	Envirotech Services Inc.	25.9	30%	8/2/2004
MeltDown Wendover AP	Envirotech Services Inc.	25.9	29%	6/22/2005
Hydro-Melt Green	Cargill	24.3	28.5%	8/1/2005
MeltDown APEX with Shield AP	Envirotech Services Inc.	25.1	30%	1/25/2006
FreezGard Zero - CI Plus (Requalified)	North American Salt	12.2	30%	8/28/2006
Ice B'Gone II HF	Sears Ecological Appl.	28.6	25%	8/9/2007

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

Product Name	Manufacturer	Corrosion Rate % Effectiveness	% Concentration	Date Approved
LIQUIDOW ARMOR	Dow Chemical	26	30%	6/25/1999
Winter Thaw DI	Tetra Technologies	16.5	32%	9/13/1999
CorGuard TG	Tiger Calcium Services	27.7	29%	1/9/2001
Calcium Chloride with BOOST	America West	12.6	32%	6/5/2006
Road Guard Plus	Tiger Calcium Services	16	25%	6/5/2006

**Product has been requalified.

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Category 3 - Non Corrosion Inhibited Liquid Calcium Magnesium Acetate

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

Category 4 - Corrosion Inhibited Sodium Chloride (Solid)

Product Name	Manufacturer	Corrosion Rate % Effectiveness	% Concentration	Date Approved
Inhibited Ice Slicer	Envirotech	30	N/A	5/19/1998
CG-90 Non-Phosphate 2.8%	Cargill	27	N/A	5/19/1998
IMC CI SALT A 3.5	North American Salt	28	N/A	8/21/2001
IMC CI SALT B 4.5	North American Salt	18.6	N/A	8/21/2001
ClearLane PNS Enhanced Deicer	Cargill	28.9	N/A	8/1/2005
IceSlicer Elite	Envirotech	16	N/A	8/1/2005

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

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

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

Product Name	Manufacturer	Corrosion Rate % Effectiveness	% Concentration	Date Approved
CG-90 Surface Saver 22%	Cargill	26	N/A	5/19/1998
MeltDown 20	Envirotech	27	N/A	8/8/2000
Surface Saver PNS 20%	Cargill	22	N/A	8/21/2001

Category 7 - Calcium Magnesium Acetate (Solid)

Product Name	Manufacturer	Corrosion Rate % Effectiveness	% Concentration	Date Approved
CMA	Cryotech	-7	96%	5/19/1998

Category 8 - Non Corrosion Inhibited Solid Sodium Chloride

CATEGORY 8A-B Standard Gradation, Brining Salt, Insoluble Material less than 1%, Contains moisture less than 0.5%

Product Name	Manufacturer		Date Approved
NASC Salt (Coarse)	North American Salt		4/21/2006
Bulk Coarse Solar	Morton Salt		4/21/2006

CATEGORY 8A-R Standard Gradation, Road Salt, Contains moisture less than 0.5%

Product Name	Manufacturer		Date Approved
Cargill Dry Salt	Cargill		6/1/1998
Mineral Melt	NSC Minerals		6/1/1998
NASC Salt (Coarse)	North American Salt		8/8/2000
KaywaySalt (Coarse)	Kayway Industries		12/23/2003
Bulk Coarse Solar	Morton Salt		4/26/2005
IceSlicer SuperBlend	Redmond Mineral		8/2/2006
ISCO Bulk Rock Salt	SPL		6/23/2008

CATEGORY 8B - Contains moisture less than 5.0%

Product Name	Manufacturer		%Moisture	Date Approved
IceSlicer RS	Redmond Mineral		1.95	2/9/2003
Quicksalt	North American Salt		2.54	6/30/2004
Type C Treated Salt	Broken Arrow		2.94	8/2/2004
SS-5.0	Shelton's Salt		0.90	9/16/2004
Bulk Type C Road Salt	Morton Salt		2.63	4/26/2005
ESSA Salt	ESSA		0.84	6/26/2007
Rapid Thaw	Broken Arrow		2.49	3/4/2009

CATEGORY 8C-B Fine Gradation, Brining Salt, Insoluble Material less than 1%, Contains moisture less than 0.5%

Product Name	Manufacturer		Date Approved
Mineral Melt	NSC Minerals		3/1/2006
Quick Brine RF	NSC Minerals		3/1/2006
Rocanville Standard Road Salt	NSC Minerals		10/6/2006

CATEGORY 8C-R, Fine Gradation, Road Salt, Contains moisture less than 0.5%

Product Name	Manufacturer		Date Approved
Mineral Melt	NSC Minerals		3/1/2006
Quick Brine VS	NSC Minerals		3/1/2006
Quick Brine RF	NSC Minerals		3/1/2006
Rocanville Standard Road Salt	NSC Minerals		10/6/2006

PNS Experimental Category - Approved Liquid Corrosion Inhibited Products

Product Name	Manufacturer	Corrosion Rate % Effectiveness	% Concentration	Date Approved
CF7	Cryotech	0.0	50 ⁽¹⁾	6/20/2001
CMAK	Cryotech	0.0	12.5/25 ⁽²⁾	6/20/2001
NC 3000	Glacial Technologies	-3.5	25 ⁽³⁾	3/13/2002
TC ECONO*	Tiger Calcium Services	20.5	20/2 ⁽⁴⁾	10/25/2002
Road Guard Plus*	Tiger Calcium Services	16	25/2/3 ⁽⁵⁾	4/7/2005
Salt Brine + Brine Cl	Cargill	25.4	25 ⁽⁶⁾	10/6/2006
Alpine Ice-Melt	Nachurs Alpine Sol. Ind.	-4.8	50 ⁽⁷⁾	6/23/2008

1 - 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 - 20% NaCl and 2% CaCl₂

5- Blended Salt with a minimum of 25% CaCl₂ , 2% MgCl₂ , and a combined percentage of 3% other chloride salts.

6- Sodium Chloride Brine

7 - Potassium Acetate

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