



24950 Country Club Blvd., Suite 450
North Olmsted, OH. 44070
Phone: 800/600-7258
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June 21, 2021

Re: Mixing liquid magnesium chloride with rock salt

Below is a brief summary of the method used to mix liquid magnesium chloride with rock salt:

“The Clearlane® Enhanced Deicer production process is initiated as untreated, sodium chloride rock salt is conveyed to a rotary blending screw. A liquid magnesium chloride blend, containing corrosion inhibitor, green dye, and performance enhancer is injected continuously, via a regulated pump and hose delivery system, into the screw. The liquid magnesium chloride blend and untreated rock salt combine to form a consistently blended, treated final product, Clearlane® Enhanced Deicer.”

Should you need any further info, please let me know.

Regards,

A handwritten signature in black ink that reads "Lyndsay Albarado". The signature is written in a cursive, flowing style.

Lyndsay Albarado
Food Safety, Quality Chemist - Salt
Cargill Protein & Salt
Cargill
Helping the world thrive

Direct: 337-332-8235 | mobile: 337-247-8041
1224 Saltmine Hwy | Breaux Bridge, LA 70517



TEST REPORT

DATE: 09/14/2010

Page 1 of 3

TEST NUMBER: 132705

CLIENT	Cargill Salt
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TEST METHOD CONDUCTED	Materials Analysis
DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Diamond Crystal GreenMelt® (Emerald Green)

GENERAL PRINCIPLE

In an effort to evaluate the staining characteristics of the salt based, tinted deicing chemical submitted, multiple flooring surfaces were chosen on which the chemical was applied. The application was done by placing 2.5 ± 0.2 grams of deicer inside a 1.5 inch diameter ring followed by 3 ml of distilled water. Two stains were applied to each surface with one being removed immediately and the other allowed to remain for 24 ± 2 hours.

Stain removal consisted of scraping away the soiled residue followed by rinsing with water and wiping with a damp cloth. Any resulting stains were visibly rated in accordance with AATCC Procedure One and a numerical assessment given which most closely corresponded to the steps of the AATCC Grey Scale for Evaluating Staining.

TEST RESULTS

STAIN MEDIA	IMMEDIATE REMOVAL	24 HOUR REMOVAL
Cut Pile Nylon Carpet	3.5	3.5
Cut Pile Polyester Carpet	5.0	5.0
Cut Pile Wool Carpet	5.0	5.0
Berber Olefin Loop Carpet	5.0	5.0
Oak Hardwood (Finished)	5.0	5.0
Oak Hardwood (Unfinished)	5.0	2.0
Pine Plank Decking (Unfinished)	5.0	3.0
Sheet Vinyl	5.0	5.0
Ceramic Tile	5.0	5.0
Porcelain Tile	5.0	5.0
Marble Tile	Slight Color in Fissures	Slight Color in Fissures
Granite Tile	5.0	5.0
Sealed Concrete	5.0	4.5
Unsealed Concrete	4.0	2.0
White Sealed Grout	3.5	3.5
White Unsealed Grout	2.5	2.0
Laminate Flooring	5.0	5.0
Concrete (Sidewalk) 5 Stage test at 0.5 grams applied	5.0	
Concrete (Sidewalk) 5 Stage test at 11.0 grams applied	4.0	

AATCC RATING KEY	
5	No Stain
4	Slight Stain
3	Noticeable Stain
2	Considerable Stain
1	Severe Stain

**NOTE: The testing conditions were intended to represent a concentrated chemical application. It may or may not be representative of repeated and/or long term chemical exposure.*

APPROVED BY:

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory Inc., shall not be used under any circumstance in advertising to the general public.



TEST REPORT

DATE: 09/14/2010

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TEST NUMBER: 132705

CLIENT	Cargill Salt
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TEST METHOD CONDUCTED	Materials Analysis
DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Diamond Crystal GreenMelt® (Green #1137)

GENERAL PRINCIPLE

In an effort to evaluate the staining characteristics of the salt based, tinted deicing chemical submitted, multiple flooring surfaces were chosen on which the chemical was applied. The application was done by placing 2.5 ± 0.2 grams of deicer inside a 1.5 inch diameter ring followed by 3 ml of distilled water. Two stains were applied to each surface with one being removed immediately and the other allowed to remain for 24 ± 2 hours.

Stain removal consisted of scraping away the soiled residue followed by rinsing with water and wiping with a damp cloth. Any resulting stains were visibly rated in accordance with AATCC Procedure One and a numerical assessment given which most closely corresponded to the steps of the AATCC Grey Scale for Evaluating Staining.

TEST RESULTS

STAIN MEDIA	IMMEDIATE REMOVAL	24 HOUR REMOVAL
Cut Pile Nylon Carpet	5.0	5.0
Cut Pile Polyester Carpet	5.0	5.0
Cut Pile Wool Carpet	5.0	5.0
Berber Olefin Loop Carpet	5.0	5.0
Oak Hardwood (Finished)	5.0	5.0
Oak Hardwood (Unfinished)	5.0	2.0
Pine Plank Decking (Unfinished)	5.0	3.0
Sheet Vinyl	5.0	5.0
Ceramic Tile	5.0	5.0
Porcelain Tile	5.0	5.0
Marble Tile	Slight Color In Fissures	Slight Color In Fissures
Granite Tile	5.0	5.0
Sealed Concrete	5.0	4.5
Unsealed Concrete	4.0	2.0
White Sealed Grout	4.0	3.0
White Unsealed Grout	3.0	2.0
Laminate Flooring	5.0	5.0
Concrete (Sidewalk) 5 Stage test at 0.5 grams applied	5.0	
Concrete (Sidewalk) 5 Stage test at 11.0 grams applied	4.0	

AATCC RATING KEY	
5	No Stain
4	Slight Stain
3	Noticeable Stain
2	Considerable Stain
1	Severe Stain

**NOTE: The testing conditions were intended to represent a concentrated chemical application. It may or may not be representative of repeated and/or long term chemical exposure.*

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TEST REPORT

DATE: 09/14/2010

Page 3 of 3

TEST NUMBER: 132705

CLIENT	Cargill Salt
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TEST METHOD CONDUCTED	Materials Analysis
DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Diamond Crystal GreenMelt® (Liquitint Green)

GENERAL PRINCIPLE

In an effort to evaluate the staining characteristics of the salt based, tinted deicing chemical submitted, multiple flooring surfaces were chosen on which the chemical was applied. The application was done by placing 2.5 ± 0.2 grams of deicer inside a 1.5 inch diameter ring followed by 3 ml of distilled water. Two stains were applied to each surface with one being removed immediately and the other allowed to remain for 24 ± 2 hours.

Stain removal consisted of scraping away the soiled residue followed by rinsing with water and wiping with a damp cloth. Any resulting stains were visibly rated in accordance with AATCC Procedure One and a numerical assessment given which most closely corresponded to the steps of the AATCC Grey Scale for Evaluating Staining.

TEST RESULTS

STAIN MEDIA	IMMEDIATE REMOVAL	24 HOUR REMOVAL
Cut Pile Nylon Carpet	5.0	5.0
Cut Pile Polyester Carpet	5.0	5.0
Cut Pile Wool Carpet	5.0	5.0
Berber Olefin Loop Carpet	5.0	5.0
Oak Hardwood (Finished)	5.0	5.0
Oak Hardwood (Unfinished)	4.5	1.0
Pine Plank Decking (Unfinished)	4.5	2.0
Sheet Vinyl	5.0	5.0
Ceramic Tile	5.0	5.0
Porcelain Tile	5.0	5.0
Marble Tile	Slight Color in Fissures	Slight Color in Fissures
Granite Tile	5.0	5.0
Sealed Concrete	5.0	4.5
Unsealed Concrete	4.0	2.0
White Sealed Grout	4.5	3.0
White Unsealed Grout	4.5	4.5
Laminate Flooring	5.0	5.0
Concrete (Sidewalk) 5 Stage test at 0.5 grams applied	5.0	
Concrete (Sidewalk) 5 Stage test at 11.0 grams applied	4.0	

AATCC RATING KEY	
5	No Stain
4	Slight Stain
3	Noticeable Stain
2	Considerable Stain
1	Severe Stain

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