

Attn: Thomas Kryzevicius  
UAB Stega  
Laisves 17-14  
Mazeikiai, LT-89222  
Lithuania

Date: 20-Dec-2018

SMI/REF: 1803-678

Product: **UNISALT SF (Lot# 12 VIII 19PE)** (received 27-Mar-2018)

Dilution: Per specification

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*Partial testing in accordance with:*

AMS 1431E

**SOLID RUNWAY DEICING/ANTI-ICING PRODUCT****3.1 Material**

- 3.1.1 Environmental Information
- 3.1.1.1 Biochemical Oxygen Demand
- 3.1.1.2 Chemical Oxygen Demand
- 3.1.1.3 Percent Biodegradation
- 3.1.1.4 Aquatic Toxicity
- 3.1.2 Trace Contaminants
- 3.1.3 Water Content
- 3.1.4 Freezing Point
- 3.1.5 Appearance

Informational

Informational

Informational

Informational

Informational

Informational

Informational

Conforms

**3.2 PHYSICAL PROPERTIES**

- 3.2.1 pH
  - 3.2.2 Flash Point
  - 3.2.3 Chloride Content
  - 3.2.4 Storage Stability
  - 3.2.5 Effect on Transparent Plastics
  - 3.2.6 Effect on Painted Surfaces
  - 3.2.7 Effect on Unpainted Surfaces
  - 3.2.8 Effect on Runway Pavements
  - 3.2.8.1 Runway Concrete Surface Scaling Resistance
  - 3.2.8.2 Asphalt Concrete Degradation Resistance
  - 3.2.9 Effect on Aircraft Metals:
    - 3.2.9.1 Sandwich Corrosion
    - 3.2.9.2 Total Immersion Corrosion
    - 3.2.9.3 Low Embrittling Cadmium Plate
    - 3.2.9.3.1 Cyclic Immersion Corrosion of Cadmium Plate
    - 3.2.9.4 Hydrogen Embrittlement
    - 3.2.9.5 Stress Corrosion Resistance
- AMS 4911
- AMS 4916

Informational

Conforms

Conforms

Not performed

Conforms

Conforms

Conforms

Conforms

Conforms

<sup>1</sup>Not performed

Conforms

Conforms

Conforms

Informational

Conforms

Conforms

Informational

<sup>1</sup>Testing required for deicer /anti-icer products used in Europe. This test is not performed by SMI.

Client: UAB Stega  
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3.2 PROPERTIES (continued)

3.2.10 Performance

Ice Melting Effectiveness  
Ice Undercutting Effectiveness  
Ice Penetration Effectiveness

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Informational

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Informational

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Informational

3.2.11 Effect on Carbon-Brake Systems

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<sup>2</sup>Not performed

<sup>2</sup> This test is not performed by SMI.

Respectfully submitted,



Patricia D. Viani, SMI Inc.

# SMI, Inc.

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Attn: Thomas Kryzevicius  
UAB Stega  
Laisves 17-14  
Mazeikiai, LT-89222  
Lithuania

Date: 23-Aug-2019

SMI/REF: 1903-578

Product: **UNISALT PF (PF191991/22/10/2018)** (received 04-Jun-2019)

Dilution: As received

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Partial testing in accordance with:

**AMS 1435D** (Revised 2018-11)

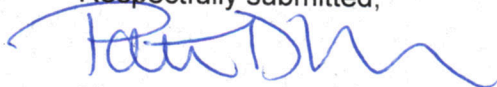
## LIQUID RUNWAY DEICING/ANTI-ICING PRODUCT

3.1	MATERIAL	
3.1.1	Environmental Information	
3.1.1.1	Biodegradability	Informational
3.1.1.2	Ecological Behavior (LC <sub>50</sub> )	Informational
3.1.1.3	Trace Contaminants	Informational
3.1.2	Appearance	Conforms
3.2	PROPERTIES	
3.2.1	Flash Point	Conforms
3.2.2	Specific Gravity	Informational
3.2.3	pH	Conforms
3.2.4	Freezing Point	Conforms
3.2.5	Effect on Aircraft Metals	
3.2.5.1	Sandwich Corrosion	Conforms
3.2.5.2	Total Immersion Corrosion	Conforms
3.2.5.3	Low Embrittling Cadmium Plate	Conforms
3.2.5.3.1	Cyclic Immersion Corrosion of Cadmium Plate	Informational
3.2.5.4	Hydrogen Embrittlement	Conforms
3.2.5.5	Stress-Corrosion Resistance	
	AMS 4911	Conforms
	AMS 4916	Informational
3.2.6	Effect on Transparent Plastics	
	MIL-P-25690 (Type C)	Conforms
	MIL-P-83310 (Polycarbonate)	Conforms
3.2.7	Effect on Painted Surfaces	Conforms
3.2.8	Effect on Unpainted Surfaces	Conforms
3.2.9	Rinsibility	Conforms
3.2.10	Effect on Runway Pavements	
3.2.10.1	Runway Concrete Scaling Resistance	Conforms
3.2.10.2	Asphalt Concrete Degradation Resistance	<sup>1</sup> Not performed by SMI
3.2.11	Storage Stability	In progress
3.2.12	Performance	
	Ice Melting Effectiveness	Not performed p/ client's request
	Ice Undercutting Effectiveness	Not performed p/ client's request
	Ice Penetration Effectiveness	Not performed p/ client's request
3.2.13	Effect on Carbon-Brake Systems	<sup>2</sup> Not performed by SMI

<sup>1</sup>Testing required for deicer /anti-icer products used in Europe (test is not performed by SMI).

<sup>2</sup>This test is not performed by SMI.

Respectfully submitted,



Patricia D. Viani, SMI Inc.