

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT: IceCare – SOLID (Runway Deicer)

Chemical Name: Sodium Formate
Chemical Family: Formic Acid, Sodium Salt

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>%</u>
Sodium Formate	141-53-7	98
Proprietary Inhibitors		Remainder

3. HAZARDS IDENTIFICATION

Health Effects

Human health effects of overexposure may cause skin or eye irritation or skin rash, tearing, or blurring of vision.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact

Flush skin with water after contact. Wash contaminated clothing before reuse.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

5. FIRE AND EXPLOSION HAZARD

Flush Point: N/A
Ignition Temp: N/A
Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.
Special Precautions: Use self-contained breathing apparatus and full protective clothing.

Special Fire and Explosion Hazard: None

6. ACCIDENTAL RELEASE MEASURES

Before handling any spills, always observe the safety precautions described in Section 8. Spills can be removed in the dry form with suitable equipment or flushed away with large quantities of water.

7. HANDLING AND STORAGE

Store in a cool dry, well-ventilated area in tightly closed containers.
Keep away from acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Keep container tightly closed and protect from moisture. Use ventilation that is adequate to keep employee exposure to airborne dust limited.

Personal Protective Equipment:

Eye/Face Protection - Wear safety glasses. When the possibility exists for eye contact from airborne material, wear coverall chemical splash goggles.

Protective Measures: Observe good plant practices.
A dust mask is recommended when handling large quantities in small confined non-ventilated areas.

9. PHYSICAL DATA

Appearance And Odor: white granules, slight specific odor.
Melting Point: : 320 degrees C.
Decomposition Temperature: <250 °C
pH 9.5 – 11.0 (10% solution)
Solubility in Water (@20°C): soluble, (>3.75 lbs./gal.)
Vapor Pressure N/A

Viscosity	N/A
Density (@20°C):	0.92-0.95 g/cc
Bulk Weight (@20°C):	59.3 lbs. per cu. ft..

No decomposition when used as directed.

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility (Material to Avoid):	Contact with acids.
Hazardous Decomposition Products:	Thermal decomposition may generate carbon monoxide and carbon dioxide.

11. TOXICITY INFORMATION

Acute oral toxicity LD50:>2000 mg/kg (rats).[☞]
Acute inhalation toxicity LC50:>670 mg/m³ (dust, rats, 4 hrs.).[☞]
Skin irritation: non irritant (Rabbits).
Eye irritation: non irritant (Rabbits).

[☞] Toxicity data of a product with a comparable composition. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin and/or eyes.

12. ECOLOGICAL INFORMATION

Biological elimination: >90% (Static test, 7 days) DIN 38 412-L25)
Toxicity to bacteria ECo:>10000 (OECD 209, after 3 hours)
Chemical oxygen demand COD: - 211 mg oxygen/g. (DIN 38409-H41)
Daphnia acute toxicity ECo: 3.3 g/l (24h); 3.2 g/l (48h)
EC50: 4.8 g/l (24h); 4.4 g/l (48h)
Fish Toxicity LC50:.1000 mg/l (96 h, Zebra fish, OECD 203)

13. DISPOSAL MEASURES

Dispose in accordance with federal, state and local regulations at waste management site.

14. TRANSPORTATION CLASSIFICATION

TDG/DOT Classification: Not regulated.

CAO/IATA Classification: Not regulated.

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA Inventory Status: Not Determined

Title III Hazard Classifications Sections 311, 312

Acute:		Yes
Chronic:	No	
Fire:		No
Reactivity:		No
Pressure:		No

16. OTHER INFORMATION

NFPA Rating:	Health:	1
	Flammability:	0
	Reactivity:	0

Personal Protection rating to be supplied by user depending on conditions.

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