

NEWDEAL® BLEND SOLID AIRFIELD DEICER

GHS SAFETY DATA SHEET (SDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: NEWDEAL® Blend Solid Airfield Deicer
 Low corrosion environmentally friendly deicer. Meets FAA specifications (SAE AMS 1431) for use on airport runways, taxiways, and ramps.

PRODUCT USE: Runway deicer. For deicing pavement surfaces.

EMERGENCY: 1-(303) 459-2500; 1-(303) 459-2859

SUPPLIER: New Deal Deicing
 6883 E 47TH Avenue Drive
 Denver, CO 80216 USA
 Tel: 1-(303) 459-2500
www.newdealdeicing.com

SECTION 2: HAZARD IDENTIFICATION

GHS CLASSIFICATION:

SIGNAL WORD: WARNING

PICTOGRAM: NONE REQUIRED

<u>HEALTH HAZARDS</u>	<u>ENVIRONMENTAL HAZARDS</u>	<u>PHYSICAL HAZARDS</u>
Acute Toxicity: Oral; Category 5 Acute Toxicity: Inhalation; Category 5 Skin Irritation: Category 3 Eye Irritation: Category 2B	Acute Toxicity: None Known Chronic Toxicity: None Known	Not Hazardous

<u>HAZARD STATEMENTS</u>	<u>PRECAUTIONARY STATEMENTS</u>
H303: May be harmful if swallowed. H316: May cause mild skin irritation. H320: Causes eye irritation. H333: May be harmful if inhaled.	P312: Call a POISON CENTER or doctor if you feel unwell P332+P313: IF SKIN irritation occurs: Get medical advice/attention. P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: IF eye irritation persists: Get medical attention. P261: Avoid breathing dust. P271: Use outdoors or in a well-ventilated area. P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P304+P312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPOSITION:</u>	<u>CAS#</u>	<u>CONTENTS</u>	<u>EINECS#</u>	<u>RTECS#</u>
NEWDEAL® Blend Deicer		100%		
CONTAINING:				
Sodium Formate	141-53-7	68-78%	205-488-0	LR0350000
Sodium Acetate	127-09-3	20-30%	204-823-8	AJ4300010
Proprietary Corrosion Inhibitors		<2%		

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Wash thoroughly with soap and water. Wash contaminated clothing before reuse. Seek medical advice if irritation persists.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. If irritation persists, see a doctor.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. Seek medical attention.

INGESTION: If conscious, wash out mouth with water. Give 1 or 2 glasses of water to dilute. Immediately seek medical attention. Do NOT induce vomiting unless instructed by medical personnel.

SYMPTOMS: Overexposure may cause skin, eye, and respiratory tract irritation. Symptoms may include sore throat and coughing.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING EQUIPMENT: Water, foam, carbon dioxide, dry chemical	<table border="1"> <thead> <tr> <th></th> <th><u>NFPA</u></th> <th><u>HMIS</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>HEALTH:</td> <td>1</td> <td>1</td> <td>1-SLIGHT</td> </tr> <tr> <td>FLAMMABILITY:</td> <td>1</td> <td>1</td> <td>2-MODERATE</td> </tr> <tr> <td>REACTIVITY:</td> <td>0</td> <td>0</td> <td>3-SERIOUS 4-SEVERE</td> </tr> </tbody> </table>		<u>NFPA</u>	<u>HMIS</u>		HEALTH:	1	1	1-SLIGHT	FLAMMABILITY:	1	1	2-MODERATE	REACTIVITY:	0	0	3-SERIOUS 4-SEVERE
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REACTIVITY:	0	0	3-SERIOUS 4-SEVERE														
EXPOSURE HAZARDS: Smoke & vapor inhalation																	
COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of sodium. If heated above 662°F, decomposition will create flammable hydrogen gas.																	
FIREFIGHTER PROTECTION: Protective clothing including self-contained breathing apparatus																	

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid contact with skin or eyes. Avoid breathing dust. See Section 8 for exposure protection recommendations

ENVIRONMENTAL PRECAUTIONS: Concentrated releases may increase oxygen demand and lower dissolved oxygen content in receiving waters.

CLEAN-UP METHODS: Spills can be removed by sweeping and shoveling material into a suitable waste disposal container. Small spills or residue can be flushed away with large quantities of water. Product is readily biodegradable.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid contact with skin or eyes. Avoid breathing dust.
 Practice good industrial hygiene. Do not eat, drink, or smoke while handling product. Always wash hands after handling material.

STORAGE: Keep in tightly closed container. Protect from moisture.
 Keep product in a cool, dry, and well-ventilated area.
 Avoid storing or handling product in systems constructed of galvanized steel, zinc, or brass.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	COMPONENT	CAS#	ACGIH TLV	OSHA PEL
	Sodium Formate	141-53-7	NONE	NONE
	Sodium Acetate	127-09-3	NONE	NONE
	Proprietary Additives		NONE	NONE

ACGIH TLV: No specific limits have been established for any of the components of NEWDEAL® Blend Deicer. As a guideline, ACGIH has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): Inhalable Particulates TWA TLV - 10mg/m³. Respirable Particulates TWA TLV - 3mg/m³.

OSHA PEL: No specific limits have been established for any of the components of NEWDEAL® Blend Deicer. As a guideline, OSHA has established the following limits which are generally recognized for inert or nuisance dust. Particulates not otherwise regulated (PNOR): Respirable Dust 8-Hour TWA PEL - 5mg/m³; Total Dust 8-Hour TWA PEL - 15mg/m³.

ENGINEERING CONTROLS: Use local exhaust ventilation or other means to keep airborne dust levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE/FACE PROTECTION: If engaging in activities that generate large amounts of airborne dust, safety goggles/glasses are recommended.

SKIN PROTECTION: Impervious gloves and appropriate work clothing.

RESPIRATORY PROTECTION: When exposure levels may be exceeded, use a NIOSH-approved respirator or filtering face piece.

GENERAL HYGIENE: Use good industrial hygiene practices while handling. Wash hands with soap and water after handling the product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Granular solid. Light blue.

ODOR: Slight

pH: 9.5-11

MELTING/FREEZING POINT: 487°F (253°C)

BOILING POINT: 860°F (460°C)

SPECIFIC GRAVITY: 1.8

SOLUBILITY (H₂O): Complete

PARTITION COEFFICIENT: N-OCTANOL/WATER: Not available

AUTO-IGNITION TEMPERATURE: Not available

DECOMPOSITION TEMPERATURE: 662°F (350°C)

ODOR THRESHOLD: Not applicable

BOILING RANGE: Not available

EVAPORATION RATE: Not applicable

FLASH POINT: Not available

FLAMMABILITY: Category 1

FLAMMABILITY LIMITS: LEL: Not applicable
UEL: Not applicable

VAPOR PRESSURE: Zero (at 68°F)

VAPOR DENSITY: Not applicable

VISCOSITY: Not applicable

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable in solid form.

CONDITIONS TO AVOID: Heat, flames, sparks, or sources of ignition. Product is deliquescent. Protect from moisture until ready to use.

INCOMPATIBLE MATERIALS: Strong oxidizers, acids. Fire risk if exposed strong oxidizers. Vigorous reaction may occur if exposed to strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and oxides of sodium. When heated above 662°F (350°C) product will decompose into highly flammable hydrogen gas.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: Eye/skin contact. Inhalation.

ACUTE SYMPTOMS & EFFECTS: Mildly toxic by ingestion, inhalation, and subcutaneous routes. Overexposure may cause skin and eye irritation.

Inhalation may cause respiratory tract irritation including coughing, sore throat, labored breathing, and chest pain. Ingestion may cause digestive tract irritation including abdominal pain, nausea, and vomiting.

CHRONIC EFFECTS: Long term skin overexposure to this product may lead to dermatitis (red, itchy skin).

TOXICITY: Oral LD₅₀: 9,700 mg/kg (rat)

CARCINOGENICITY: None of the components of this product have been identified by ACGIH, IARC, NTP, or OSHA as carcinogenic.

SECTION 12: ECOLOGICAL INFORMATION

DEGRADABILITY: Readily biodegradable

AQUATIC TOXICITY: 48 hr LC₅₀: 4,125 mg/l (Daphnia magna)

96 hr LC₅₀: 8,050 mg/l (Pimephales promelas)

BOD₅ (20°C): 0.13 kg O₂/kg solid

TOD/COD: 0.42 kg O₂/kg solid

SECTION 13: WASTE DISPOSAL CONSIDERATIONS

Follow applicable federal, state, and local environmental control regulations. Based on information available, this product is not listed as a hazardous material nor exhibits any characteristics that would cause it to be classified or disposed of as an RCRA hazardous waste.

SECTION 14: TRANSPORT INFORMATION

US DOT CLASSIFICATION: Not regulated or restricted

UN NUMBER/HAZARD CLASS: None

ICAO/IATA CLASSIFICATION: Not regulated or restricted. Does not meet the definition of an Environmentally Hazardous Substance (UN/IATA)

SECTION 15: REGULATORY INFORMATION

FEDERAL REGULATIONS: TSCA 8(b) Inventory. None of the components of this product are regulated under TSCA Section 12(b).

CLEAN WATER ACT: None of the components of this product are listed as Priority Pollutants or Toxic Pollutants under the CWA.

SARA SECTION 302/311 HAZARDOUS SUBSTANCES: No

WHMIS (CANADA) STATUS: Not controlled

SECTION 16: OTHER INFORMATION

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