



SAFETY DATA SHEET

Name of Product:

Alpine RF-11

Product #: I000093
Revision Date: April 4, 2014

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Alpine RF-11
SYNONYMS: Deicing Fluid, Antiicing Fluid, Runway Deicer.
PRODUCT CODES: I000093, I000115

MANUFACTURER: NACHURS ALPINE SOLUTIONS
DIVISION: Marion
ADDRESS: 421 Leader Street
Marion, OH 43302, United States

EMERGENCY PHONE: United States: Chemtrec: 800-424-9300 (CCN# 15189)
Canada: CANUTEC: 613-996-6666
I TECH 877-324-4402

CHEMICAL NAME: Potassium Acetate
CHEMICAL FAMILY: Organic acid, potassium salt
CHEMICAL FORMULA: CH₃COOK

PRODUCT USE: Deicing fluid, Antiicing fluid.

PREPARED BY: Nachurs Alpine Solutions Technical Services

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Use with care! May cause irritation.

ROUTES OF ENTRY: Inhalation, Ingestion, Injection, Absorption

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation.
SKIN: May cause irritation.
INGESTION: May cause irritation.
INHALATION: May cause irritation.

ACUTE HEALTH HAZARDS: Possible skin irritation.

CHRONIC HEALTH HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:

OSHA: No
ACGIH: No
NTP: No
IARC: No
CA Prop 65: No

SECTION 2 NOTES:

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

			<u>CAS No.</u>
INGREDIENT:	Potassium Acetate	50%	127-08-2
	Water	50%	7732-18-5
	Corrosion Inhibitor	<1%	Proprietary

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.

SKIN: Thoroughly wash with soap and water. If irritation persists, seek medical attention.

INGESTION: If victim is conscious and alert, give milk or water to drink. Seek medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Not flammable.

FLASH POINT: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

NFPA HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
OTHER: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
PROTECTION: B

EXTINGUISHING MEDIA: Water or media suitable for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: Proper safety equipment to include SCBA operated in positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon monoxide and/or carbon dioxide may be released.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and/or carbon dioxide.

SECTION 5 NOTES:

SAFETY DATA SHEET

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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Confine the spill to a diked area or sump, if possible, and recover as much of the product as possible. Place in suitable containers. Dispose in accordance with all federal, state, and local regulations.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in suitable containers made of mild steel, stainless steel, plastic or fiberglass.

OTHER PRECAUTIONS: Always use good safety and industrial hygienic practices.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good hygienic operating protocols are always recommended.

VENTILATION: Provide local ventilation as necessary.

RESPIRATORY PROTECTION: Respiratory protection is not normally required unless excessive heat or reaction results in release of carbon dioxide or carbon monoxide. In enclosed spaces, these gases can displace oxygen causing possible suffocation, thus use a self-contained breathing apparatus. Do not use air purifying respirators.

EYE PROTECTION: Safety goggles and full face shield.

SKIN PROTECTION: Rubber gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling.

EXPOSURE GUIDELINES: N/A

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, blue liquid.

ODOR: Mild odor.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 9.0 - 11.0

BOILING POINT: Unknown

MELTING POINT: Unknown

SAFETY DATA SHEET

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FREEZING POINT: F°: -72
C°: -58

VAPOR PRESSURE (mmHg): No data available.

VAPOR DENSITY (AIR = 1): No data available.

SPECIFIC GRAVITY (20°C): 1.28

DENSITY, LBS/GAL (20°C): 10.65

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT: 50

PERCENT VOLATILE: 50%

VOLATILE ORGANIC COMPOUNDS (VOC): None

VISCOSITY:	Temperature °C	cSt.	cPs.
	20	4.7	6.0
	0	9.8	12.5
	-10	16.5	21.1
	-20	30.6	39.1

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	Extreme heat.	
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong acids or strong oxidizing agents.	
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Carbon monoxide and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION:	Will not occur.	

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: EPA 40CFR797.1300 Daphnid Acute Toxicity: 48 hour LC₅₀: 2825 mg/L
EPA 40CFR797.1400 Fish Acute Toxicity: 96 hour LC₅₀: 2925 mg/L

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: BOD: 0.21 kg O₂/kg
COD: 0.35 kg O₂/kg

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SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Reclaim and reuse as much as possible. Dispose in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: No.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

GROUND TRANSPORTATION:

PROPER SHIPPING NAME: Alpine RF-11
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: N/A

WATER TRANSPORTATION (IMDG):

PROPER SHIPPING NAME: Alpine RF-11
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

AIR TRANSPORTATION (IATA):

PROPER SHIPPING NAME: Alpine RF-11
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

CHEMICAL INVENTORY LISTS:

TSCA (U.S. Toxic Substances Control Act): Yes
TSCA Section 12(b): No
DSL (Canadian Domestic Substances List): Yes
EINCS (European Inventory of Existing Commercial Chemical Substances): Yes
AICS (Australia): Yes
IECSC (China): Yes
ENCJ (Japan): Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No

CLEAN AIR ACT (CAA): Contains no priority air pollutants.

CLEAN WATER ACT (CWA): Contains no priority water pollutants.

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SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

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