



SAFETY DATA SHEET

Name of Product:

Alpine RF-11

Product #: See Section 1
Revision Date: June 4, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Alpine RF-11
SYNONYMS: Deicing Fluid, Antiicing Fluid
PRODUCT CODES: I000093, I000115, I000119

MANUFACTURER: Nachurs Alpine Solutions Industrial
DIVISION: Marion
ADDRESS: 421 Leader Street
Marion, OH 43302, United States

PHONE: 800-622-4877 (USA)
800-265-2268 (CANADA)

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 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification: Eye Irritation (Category 2B).

Pictogram: None.

Signal Word: Warning

Hazard Statements: Causes eye irritation.

Precautionary Statements: Wash skin thoroughly after handling. Wear protective gloves, clothing, eye and face protection.
If swallowed, rinse mouth. Do NOT induce vomiting.
If on hair or skin, remove all contaminated clothing and rinse skin with water.
If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes, rinse carefully with water for several minutes. Remove contactlenses, if able and continue rinsing.
Immediately call a poison center or doctor/physician. See First Aid instruction for specific treatment.
Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

POTENTIAL HEALTH EFFECTS

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

ACUTE HEALTH HAZARDS: Causes eye irritation. Possible skin irritation.

CHRONIC HEALTH HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:

OSHA: No
ACGIH: No

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NTP: No
IARC: No
CA Prop 65: No

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

SARA 313 REPORTABLE: N/A

OSHA PEL-TWA: N/A
OSHA PEL-STEL: N/A
OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A
ACGIH TLV-STEL: N/A
ACGIH TLV CEILING: N/A

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 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Not flammable.

FLASH POINT: >212°F, >100°C

METHOD USED: Tagged Closed Cup

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.

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

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 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep in a cool dry, well-ventilated place. Keep container tightly closed. Store in suitable containers made of mild steel, stainless steel, plastic or fiberglass. Wear suitable personal protective equipment.

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

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 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, blue liquid.

ODOR: Mild odor.

ODOR THRESHOLD: No data available.

PHYSICAL STATE: Liquid.

pH AS SUPPLIED: 9.0 - 11.0

MELTING POINT: Unknown

FREEZING POINT: F°: -72
C°: -58

BOILING POINT: >200°F
>93.3°C

FLASH POINT: >212°F, >100°C

METHOD USED: Tagged Closed Cup

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EVAPORATION RATE: N/A

FLAMMABLE LIMITS IN AIR: Not flammable.

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

PARTITION COEFFICIENT: n-octanol/water – N/A

PERCENT SOLIDS BY WEIGHT: 50

PERCENT VOLATILE: 50%

VOLATILE ORGANIC COMPOUNDS (VOC): None

AUTOIGNITION TEMPERATURE: N/A

THERMAL DECOMPOSITION: N/A

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

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 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

ACUTE TOXICITY: LD50 (Rat, Oral): 3250 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

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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 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 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.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Nachurs Alpine Solutions will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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