

Name of Product:

ALPINE G241-S TM

Product #: F 34

Revision Date: April 2, 2018

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ALPINE G241-S SYNONYMS: 7-24-4-1S PRODUCT CODES: F 34

MANUFACTURER: NACHURS ALPINE SOLUTIONS®

DIVISION: New Hamburg

ADDRESS: 30 Neville Street, New Hamburg, ON N3A 4G7 CANADA

EMERGENCY PHONE: 1-877-378-7745 (QM)
CHEMTREC PHONE: 1-800-424-9300 (US)
CANUTEC: 1-613-996-6666 (CANADA)

OTHER CALLS: FAX PHONE:

CHEMICAL NAME: Nitrogen, Phosphorus, Potassium mixed fertilizer solution

CHEMICAL FAMILY: Inorganic
CHEMICAL FORMULA: Fertilizer complex

PRODUCT USE: Agricultural Nutrient Supply

PREPARED BY: NACHURS ALPINE SOLUTIONS®

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Use with Care!

ROUTES OF ENTRY: Inhalation, Ingestion, Injection, Absorption

POTENTIAL HEALTH EFFECTS

EYES: May cause irritation

SKIN: N/A

INGESTION: May cause irritation

INHALATION: N/A

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY:

OSHA: N/A
ACGIH: N/A
NTP: N/A
IARC: N/A
OTHER: N/A

SECTION 2 NOTES:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Nitrogen: 7%

Phosphorous: 24%
Potassium: 4%
Sulphur: 1%

CAS NO.: Ammonium thiosulfate: 7783-18-8

Potassium Acetate: 127-08-2 Ammonium orthophosphate: 7783-28-0 Ammonium polyphosphate: 68333-79-9

Potassium phosphate 7778-77-0 70% combined

Water: 7732-18-5 30% WT: 100%

SARA 313 REPORTABLE: N/A

pmm: mg/m3:

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 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with plenty of water for 15 minutes. Seek medical attention if irritation persists. SKIN: Flush skin with plenty of water for 15 minutes. Seek medical attention if irritation persists.

INGESTION: Rinse mouth and drink water. Do not induce vomiting. Seek medical attention.

INHALATION: If inhaled, remove to fresh air. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptoms as a strong salt solution (brine).

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: UPPER: N/A (% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

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NFPA HAZARD CLASSIFICATION:

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 OTHER: None

HMIS HAZARD CLASSIFICATION

HEALTH 1 FLAMMABILITY: 0 **REACTIVITY**: 0 PROTECTION:

EXTINGUISHING MEDIA: Material as distributed is non-flammable. Use water or media suitable for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES: Positive pressure self-contained breathing apparatus should be used when there is a potential for

inhalation of vapors and/or fumes.

Decomposition can occur at elevated temperatures with production of toxic fumes of nitrogen UNUSUAL FIRE AND EXPLOSION HAZARDS:

oxides (NOx) and/or ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia or oxide of nitrogen may be generated with excessive heat or strong alkaline materials.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Fertilizers may promote eutrophication in waterways. In the case of small and large spills, isolate the spill to a

contained area such as a dike or sump. Maximize recovery or absorb with an inert material (sand/kitty litter) and place in a suitable container. Reuse material (if possible) or dispose of product appropriately. Clean up

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residue with plenty of water.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a suitable container made of plastic, mild steel, fiberglass or stainless steel. Make sure container is

tightly closed when not in use. Store in a cool, dry and well-ventilated area and away from incompatible substances. Avoid containers or fittings made of aluminum, copper containing alloys or galvanized metals.

OTHER PRECAUTIONS: Always use good safety and industrial hygienic practices. Remove contaminated clothing and wash before

reuse.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate general and local exhaust ventilation to keep airborne concentrations to a minimum.

VENTILATION: Adequate ventilation recommended.

RESPIRATORY PROTECTION: Respiratory protection not normally required unless excessive heat or reaction occurs resulting in the release

of ammonia or nitrogen oxides. Use a self-contained breathing apparatus if these conditions may occur. Use

respiratory protection if misted or sprayed.

EYE PROTECTION: Wear safety glasses to prevent eye contact due to splashing.

SKIN PROTECTION: Not required (rubber or PVC gloves recommended for prolonged exposure). Wear waterproof apron if splash

or spill is likely.

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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling.

EXPOSURE GUIDELINES: See Section 3.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Green Clear Liquid

ODOR: Slight Ammonia

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 6.0 - 6.4

pH (Other):

BOILING POINT:

F°: 212°F

C°: 100°C

MELTING POINT:

N/A

FREEZING POINT:

Do not allow to freeze

VAPOR PRESSURE (mmHg) N/A

VAPOR DENSITY (AIR = 1) N/A

SPECIFIC GRAVITY ($H_2O = 1$) 1.32 - 1.34

EVAPORATION RATE: N/A

BASIS (=1):

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT: 70%

PERCENT VOLATILE: N/A

BY WT

BY VOL @ F

C°:

VOLATILE ORGANIC COMPOUNDS (VOC): 0%

WITH WATER LBS/GAL: WITHOUT WATER LBS/GAL:

MOLECULAR WEIGHT: N/A

VISCOSITY: Same as water

SECTION 9 NOTES:

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SECTION 10: STABILITY AND REACTIVITY

STABLE UNSTABLE

STABILITY: x

CONDITIONS TO AVOID (STABILITY): When heated may give off ammonia gas.

INCOMPATIBILITY (MATERIAL TO AVOID): Water reactive and strong alkaline materials.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Ammonia gas, Nitrogen oxides (NOx)

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No data established for this product. For major ingredients:

Ammonium Phosphates LD50 (Oral, Rat): 3000 mg/kg

Potassium Phosphates LD50 (Oral, Rat): 4640 mg/kg

Ammonium Thioshulfate LD50 (Oral, Rat): 1950 -2890 mg/kg

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not allow to enter drinking water. This product is a fertilizer solution. Release of large quantities into a body

of water can substantially alter the nutrient composition which can affect aquatic plants, fish and animal life. It

may lead to eutrophication and algae blooms.

No data established for this product. For major ingredients:

Ammonium Phosphates LC50 (Rainbow Trout, 96hr): 101 mg/L

LC50 (Oncorhynchus mykiss, 96 hr): >85.9 mg/L

Ammonium Thiosulfate LC50 (Rainbow Trout, 96 hr): 770 mg/L

LC50 (Blluegills, 96 hr): 1000 mg/L

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Users of this product should review their operations in terms of applicable federal, state, and local laws and

regulations, then consult with appropriate regulatory agent before discharging or disposing. The waste may

be applied as a fertilizer within specific state/provincial application rates.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES:

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SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: 7-24-4-1S HAZARD CLASS: N/A

ID NUMBER: N/A PACKING GROUP: N/A

LABEL STATEMENT:

Health: Flammability: 0 Reactivity: 0 Specific: None

WATER TRANSPORTATION:

PROPER SHIPPING NAME: 7-24-4-1S

> HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A

LABEL STATEMENTS:

Health: Flammability: 0 Reactivity: 0 Specific: None

AIR TRANSPORTATION

PROPER SHIPPING NAME: 7-24-4-1S

HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A

LABEL STATEMENTS:

Health: Flammability: Reactivity: Specific: None

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Yes

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: Potassium Chloride, Urea, Ammonium Orthophosphate, Ammonium Polyphosphate

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

CANADA FEDERAL REGULATIONS:

WHMIS CLASSIFICATIONS: Not Regulated

DSL (Domestic Substance List): Potassium Phosphate: Yes

Ammonium Thioshulfate: Yes Ammonium orthophosphate: Yes Ammonium polyphosphate: Yes Potassium Acetate: Yes

SECTION 15 NOTES:

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SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: Technical Services Department

DISCLAIMER:

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