



Nu-West Industries, Inc.

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Material Safety Data Sheet

Product Quick Identifier: MAP; 11-52-0

(Dry chemical fertilizer)

MSDS prepared 06/05/90

SECTION 1 - IDENTITY

Common name: MAP; 11-52-0

Chemical name: Monoammonium phosphate

Chemical family: Ammonium salt

CAS No.: 7722-76-1

Formula: $\text{NH}_4 \text{H}_2\text{PO}_4$

SECTION 2 - HAZARDOUS INGREDIENTS

Principal components (chemical & common names)

%

TLV

(Non-hazardous under normal exposure conditions)

Typical analysis

Nitrogen	11.0%	
Total phosphate (as P_2O_5)	52.2%	
Total phosphate (as H_3PO_4)	72.0%	1 mg/ M^3 air

Nuisance dust	varies	15 mg/ M^3 air
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SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point: dec. @ 100 C.

Specific gravity: N/A

Vapor pressure: N/A

Vapor density: N/A

Solubility in water: 90%

Reactivity in water: No reaction.

Appearance & Odor: Bright green to gray granular solid; weak pungent odor.

Melting point: N/A

Evaporation rate: N/A

SECTION 4 - FIRE & EXPLOSION DATA

Flash point: Not flammable.

Flammable limits in air: Not flammable.

Auto-ignition temperature: Not flammable.

Extinguishing media: Use normal fire fighting procedures to extinguish at source.

Special fire fighting procedures: Use normal fire fighting procedures when material involved in fire.

Hazardous and explosion hazards: Toxic and irritating fumes

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SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Stable.

Incompatibility: No reaction with common materials.

Hazardous decomposition products: Ammonia & oxides of nitrogen.

Hazardous polymerization: N/A

SECTION 6 - HEALTH HAZARDS

Signs & symptoms of exposure: Irritation of mucous membranes; skin irritation.

This compound is not listed as a carcinogen or potential carcinogen.

Emergency first aid procedures:

Routes
of
entry:

Inhalation: Remove to fresh air, artificial respiration if needed.

Eyes: Flush with water 15 min.

Skin: Flush with water.

Ingestion: Have victim drink milk or water, induce vomiting, consult physician.

If unconscious or convulsing, keep warm until medical help arrives.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be taken in handling and storage: Normal care should be taken to prevent skin/inhalation/eye contact.

Steps to be taken in case material is released or spilled: Avoid skin/inhalation/eye contact. Isolate and remove spilled material.

Waste disposal methods: Clean, dry material may be reclaimed for reuse.

Material not reuseable may be disposed of in an approved landfill.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory protection: Dust mask or respirator.

Ventilation: Normal dust ventilation.

Protective gloves: Recommended.

Eye protection: Recommended.

Other protective clothing or equipment: Clothing capable of preventing contact with skin.

Work hygienic practices: Those handling this material on a regular basis should observe all of the above mentioned precautions.

The information, data, and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by Nu-West Industries, Inc. to be accurate.