



1. IDENTIFICATION

Product Name	MAP
Chemical Name	Monoammonium Phosphate
Recommended use	Fertilizer
Supplier	Valudor Products, LLC. 179 Calle Magdalena Suite 100 Encinitas CA 92024 (760) 635 8500
Emergency Telephone	800-535-5053 (Infotrac)

2. HAZARD IDENTIFICATION

Classification

This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Label Elements

Not a hazardous substance or mixture

Hazards not other classified None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name	Monoammonium Phosphate
Synonym	MAP; Phosphoric acid, monoammonium salt; Ammonium dihydrogen phosphate
Formula	(NH ₄)H ₂ PO ₄
Molecular weight	115.03 g/mol
Cas No.	7722-76-1
Concentration	95-100%

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/physician if irritation persists
Skin Contact	Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician
Inhalation	Remove to fresh air. If breathing is difficult, administer

Ingestion oxygen. If not breathing, give artificial respiration. Get medical attention.
Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If vomiting occurs and the victim is conscious, give water to further dilute the chemical. If symptoms persist, call a physician

Most important symptoms/effects, acute and delayed

Symptoms No information available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media Not combustible. Use any means suitable for extinguishing surrounding fire.

Specific Hazards Arising from the chemical

Hazardous combustion products Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to:
Ammonia
Nitrogen Oxides
Phosphorous oxides

Protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

Methods and materials for containment and cleanup

Methods for clean-up Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust.

Environmental Precautions Prevent entry into waterways or sewers

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe dust. Avoid dust formation. Avoid contact with eyes, skin and clothing. Do not ingest. Ensure adequate ventilation. Use personal protective equipment recommended in section 8. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

Personal Protective Equipment

Eye/face protection	Safety glasses are recommended in professional settings
Skin protection	Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves
Respiratory protection	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance	White
Physical state	Solid
Odor	Odorless
Odor threshold	No information available
pH	4.4 – 4.9
Melting point / freezing point	No information available
Boiling point / Boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Flammability or explosive limits	
Upper	No information available
Lower	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	No information available
Solubility in water	> 100 g/l
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	>190C (>374F)

Viscosity No information available

10. STABILITY AND REACTIVITY

Reactivity None known under normal conditions.

Chemical stability Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Avoid dust formation. Avoid extreme temperatures

Incompatible materials Strong bases. Sodium hypochlorite

Hazardous decomposition products Hazardous combustion can lead to the release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact May cause skin irritation

Eye contact May cause eye irritation

Inhalation May cause irritation of respiratory tract

Ingestion May be harmful if swallowed

Symptoms related to the physical chemical and toxicological characteristics

No information available

Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation Not classified

Eye damage/irritation Not classified

Sensitization Not classified

Mutagenic effects Not classified

Carcinogenicity Not classified

Reproductive toxicity Not classified

STOT – single exposure Not classified

STOT – repeated exposure Not classified

Aspiration hazard Not classified

Acute Toxicity

Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoammonium Phosphate	7722-76-1	> 2,000 mg/kg	> 5,000 mg/kg	> 5 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Monoammonium Phosphate 7722-76-1	LC50: > 85.9 mg/L – 96 hr	EC50: > 100 mg/L – 72 hr	LC50: > 1790 mg/L – 72 hr

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated
IATA Not regulated
IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

US Federal Regulations

TSCA section 12(b) Export Notification
 Not regulated

SARA 313
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
 Not applicable

SARA 311/312 Hazard Categorization

Acute health hazard No
 Chronic Health Hazard No
 Fire hazard No

Product name: MAP

Revision Date: 01/19/2020

Pressure No
Reactivity No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals

16. OTHER INFORMATION

NFPA Ratings Health: 1 Flammability: 0 Reactivity: 0

Creation Date: 02/21/2016

Revision Date: 01/19/2020

Revision Number: 1.0

Revision Information Creation

Disclaimer

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