

MONAMPHOS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name	: Monamphos
Other names	: Monoammonium phosphate, ammonium phosphate monobasic
CAS number	: 7722-76-1
EC number	: 231-764-5
Molecular mass	: 115.03 g/mol
Formula	: NH ₄ H ₂ PO ₄

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Relevant identified uses

For use in animal feed applications.

1.2.2 Uses advised against

Not for human consumption.

1.3 Details of the supplier of the safety data sheet:

Distributor of the product

Pestell Minerals & Ingredients
141 Hamilton Rd, New Hamburg, Ontario, N3A 2H1, Canada
Tel: 519-662-2877
Email: qa@pestell.com

1.4 Emergency telephone number:	+1 613-996-6666 (CANUTEC)	+1-703-527-3887 (CHEMTREC)
(24 hr)	Canada	US

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to GHS

Not classified as dangerous according to the criteria of the Globally Harmonized System

2.1.2 Classification according to Regulation EC No 1272/2008

Not classified as dangerous according to the criteria of Regulation EC No 1272/2008

2.2 Label elements:

Not required.

Precautionary Statements

Use good industrial hygiene when handling this product.
Wash hands thoroughly with soap and water after handling.
Store apart from incompatible materials (see Section 10 for more information).
Dispose of waste in accordance with local authorities.

2.3 Other hazards:

No other hazards known

SECTION 3: Composition/information on ingredients

3.1 Substances:

Monoammonium phosphate	CAS number	: 7722-76-1
	EC number	: 231-764-5
	Molecular mass	: 115.03g/mol
	Formula	: NH ₄ H ₂ PO ₄

This substance is not classified as dangerous based upon classification criteria

3.2 Mixtures:

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms

Data not available.

4.2.2 Delayed symptoms

Data not available.

4.3 Indication of any immediate medical attention and special treatment needed:

Data not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours).

5.3 Advice for firefighters:

5.3.1 Instructions:

Dilute toxic gases with water spray.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Prevent dust cloud formation, e.g. by wetting. No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.

6.3 Methods and material for containment and cleaning up:

Prevent dust cloud formation. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature:

Keep in a dry place.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

No data available

8.2 Exposure controls:

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice.

Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Solid
	Grains
Odour	Odourless

Odour threshold	Not applicable
Colour	Off-white
Particle size	No data available
Explosion limits	No data available
Flammability	Non combustible
Log Kow	No data available
Dynamic viscosity	Not applicable
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Vapour pressure	Not applicable
Relative vapour density	Not applicable
Solubility	water ; 98 g/100 ml
Relative density	0.9
Decomposition temperature	190 °C
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	3.6 - 4 ; 1.0 %

Physical hazards

No physical hazard class

9.2 Other information:

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:

Substance has acid reaction.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Avoid raising dust. Keep away from naked flames/heat.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity

Not listed as toxic.

Corrosion/irritation

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity - single exposure

Data not available.

Specific target organ toxicity - repeated exposure

Data not available.

Mutagenicity

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Not classified for carcinogenicity

Reproductive toxicity

Not classified for reprotoxic or developmental toxicity

Chronic effects from short and long term exposure

No effects known.

Other negative effects

Data not available.

SECTION 12: Ecological information

12.1 Toxicity:

Data not available.

12.2 Persistence and degradability:

Data not available.

12.3 Bioaccumulative potential:

Data not available.

12.4 Mobility in soil:

Data not available.

12.5 Results of PBT and vPvB assessment:

Data not available.

12.6 Other adverse effects:

Data not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Disposal methods

Unused product and waste should be disposed of in accordance with local authorities. Do not allow product to enter waterways.

Packaging/Container

Dispose of as unused product.

SECTION 14: Transport information

TDG (Can)

Not dangerous goods

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

WHMIS

Not classified as dangerous.

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pestell Minerals & Ingredients and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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