

(SDH) SAFETY DATA SHEETS CHEMICALS RISK

NOM-018-STPS-2015

SISTEM QUALITY 02S-002-STPS

PRODUCT NAME: (MAP) MONOAMMONIUM PHOSPHATE.

HDS:01-I

ACTUALIZATION DATE: REVICION DATE:

8-Mayo-2016

GENERAL INFORMATION OF THE RESPONSABLE PERSON.

NAME OF THE MANUFACTURER OR IMPORTER: **EMERGENCY TELEPHONE NUMBER:**

AGROINDUSTRIAS DEL BALSAS, S.A. de C.V. 01 (753) 53 3 36 00 Extensión. 2850 y 2851 Directo. (753) 53-3-36-35

COMPLETE ADDRESS: Email: jbucio@fertinal.com.mx

ISLA DE EN MEDIO INTERIOR RECINTO PORTUARIO 60950 S/N

STREET: For. Num. ZIP CODE:

CD. Y PTO. LÁZARO CÁRDENAS, MICHOACÁN (MÉXICO) CD. Y PTO. LAZARO CARDENAS

CONTRY:

SECTION 1: IDENTIFICATION OF THE SUBSTANCE.

1.1) NAME OF THE CHEMICAL SUBSTANCE OR MIXTURE: Monoammonium phosphate. (MAP) 1.2) FORMULA: (NH4)H2PO4

1.3) OTHER METHODS OF IDENTIFICATION (Synonyms): Ammonium dihydrogen phosphate / Ammonium dihydrogenorthophosphate

Phosphoric acid, monoammonium salt. CAS: 7722-76-1.

1.4) USE HAZARDOUS CHEMICAL OR MIXTURE AND SUBSTANCE RECOMMENDED:

Monoammonium phosphate is a fertilizer soil improver.

1.5) RESTRICTIONS OF USE: Agricultural chemical 1.6) PRODUC CODE: MAP, FERTIMAP

1.7) DATA FROM THE PROVIDER OR MANUFACTURER

NAME OF THE MANUFACTURER OR IMPORTER: IN AN EMERGENCY CALL THE PHONE

AGROINDUSTRIAS DEL BALSAS, S.A. de C.V. 01 (753) 53 3 36 00 Extensión. 2850 y 2851 Directo. (753) 53 3 36 35.

Email: jbucio@fertinal.com.mx

SECTION 2: HAZARDS IDENTIFICATION.

2.1) CLASSIFICATION OF THE CHEMICAL SUBSTANCE OR MIXTURE: Skin Irrit. 2 H 315

Physicals Hazards: Warning; H 315 - Causes skin irritation, H 320 - Causes eye irritation. Health Hazards: P 261 - Avoid breathing dust.

2.2) ELEMENTS OF THE SIGNALLING: Códe NFPA 704, UN, Pictograms GHS-MX.

Identification Code P (SGA-MX):

P 264 - Wash hands thoroughly after handling

P 271 - Use only outdoors or in a well-ventilated area

P 280 - Wear eye protection, face protection, protective clothing, protective gloves

P 302+P 352 - IF ON SKIN: Wash with plenty of water

P 304+P 340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P 305+P 351+P 338 - If in eyes: Rinse cautiously with water for several minutes.

Identification Code H (SGA-MX):

H 315 - Causes skin irritation

H 320 - Causes eye irritation

H 335 - May cause respiratory irritation



2.3) OTHER HAZARDS: Hazardous to the aquatic environment.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1) IDENTITY OF THE SUBSTANCE: Monoammonium phosphate

3.2) COMPONENTS OF THE MIXTURE:

NAME:	IDENTIFICATION OF THE SUBSTANCE	%	CLASSIFICATION SGA-MX
Monoammonium phosphate as P2O5	CAS: 7722-76-1	52	Skin Irrit. 2, H315, Eye Irrit. 2B, H320
Total Nitrogen, as N		11	
Fluorides, as F		0.6	

ESPECIFICATIONS:

Monoammonium phosphate is a solid grey color, aperdigonado, slight ammoniacal odor, soluble to water.

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	SECTION 4: FIRST AID MEASURES.			
4.1) 1 er.PARTE	HEALTH EFFECTS:			
STATEMENT BY ACUTE	A) ACCIDENTAL INGESTIÓN: Do not induce vomiting. Seek medical attention if a large amount is swallowed.			
	B) INHALATIÓN: If inhaled, remove from source of exposure to dusts to fresh air. Obtain medical attention.			
	C) SKIN (CONTACT AND ABSORPTION): Wash skin thoroughly with mild soap and water.			
	D) EYES: Immediately rinse with water for a prolonged period while holding the eyelids wide open.			
4.2) STATEMENT BY THE (HRONICLE:			
SUBSTANCE CONSIDEREI	AS CHEMICAL: CARCINOGENIC: ND MUTOGENIC: ND TERATOGENIC: ND OTHER: ND			
STPS (NOM-010-STPS)	YES: NOT: X ESPECIFICATION:			
FUENTE APROBADA:	YES: X NOT: ESPECIFICATION: OECD Guidline 402			
SUPPLEMENTARY INFORM	ATION (DL50, CL50): LD50 oral rat > 2000 mg/kg, LD50 dermal rat > 5000 mg/kg.			
4.3) 2A. PART	EMERGENCY AND FIRST AIDS:			
A) CONTACT WITH EVES.	Agy og upg gyg irritation			

- **CONTACT WITH EYES:** May cause eye irritation.
- B) CONTACT WITH THE SKIN: May cause skin irritation.
- C) INGESTIÓN: If a large quantity has been ingested : Abdominal pain. Diarrhea. Nausea. Vomiting.
- D) INHALACIÓN: Difficulty in breathing. Dry/sore throat. Symptoms may be delayed.
- 4.4) OTHER RISKS OR HEALTH EFFECTS: Irritation to eyes, skin and respiratory tract.
- 4.5) DATA FOR THE PHYSICIAN: No additional information available.
- 4.5) ANTÍDOTOS (DOSE, IF ANY): No additional information available.

SECTION 5: FIREFIGHTING MEASURES.

- 5.1) APPROPRIATE EXTINGUISHING METHODS: Chemical type foam, Carbon Dioxide (CO2), dry chemical, water fog.
- 5.2) SPECIFIC ATMOSPHERES OF THE CHEMICALS OR MIXTURES: MAP is a non-flammable inorganic salt and is not flammable; however, if involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: Ammonia.
- 5.3) MEASURES ESPESIFICAS THAT YOU MUST FOLLOW FOR FIRE FIGHTING GROUPS: Keep personnel removed from and upwind of fire. When strongly heated MAP will decompose giving off ammonia.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1) PERSONAL PRECAUTION: Do not breathe fumes from fires or vapours from decomposition. 6.2) PROTECTIVE EQUIPMENT:

Wear suitable protective clothing, gloves and eye/face protection. Wear tight fitting goggles in dusty areas to reduce dust exposure.

6.3) ENVIRONMENTAL PRECAUTIONS:

If spill could potentially enter any waterway, including intermittent dry creeks, contact the PROFEPA.

6.4) METHOD AND MATERIALS FOR CONTAINMENT AND CLEANING SPILLS OR LEAKS: If contaminated with other materials, contain and collect as any solid in suitable containers.



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SECTION 7: HANDLING AND STORSGE.

7.1) PRECAUTIONS TO BE TAKEN TO ENSURE A SAFE HANDLING: Handle in accordance with good industrial hygiene and safety procedures.

Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

7.2) INSURANCE AND INCOMPATIVILIDAD CONDITIONS STORAGE CONDITIONS: Store tightly closed in a dry, cool and well-ventilated place.

Protect from moisture. Specific end use(s); Agricultural chemical.

Incompatible materials; Alkalis and caustic products. strong acids. copper and its alloys.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION.

8.1) CONTROL PARAMETERS: Monoammonium Phosphate (7722-76-1) as P2O5

USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m3 – inhalable fraction
USA OSHA	OSHA PEL (TWA) (mg/m3)	15 mg/m3 – particulate
STPS	TLV: 15 mg/m3.	

- **8.2) APPROPRIATE ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas and avoid high dust concentration.
- 8.3) PERSONAL PROTECTIVE MEASURES SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE:)







- A) SKIN AND BODY PROTECTION PROTECTION: Protective clothing.
- B) EYE PROTECTION: Gloves. Safety glasses
- C) RESPIRATORY PROTECTION: Wear NIOSH approved respiratory protective equipment when exposure exceeds the OSHA nuisance dust.
- 8.4) ENVIRONMENTAL EXPOSURE CONTROL: Ensure adequate ventilation, especially in confined areas.

SECTION OF	DUVCIONI	AND CHEMICAL	DDODEDTIES

9.1) APPEARANCE: Solid 9.2) COLOUR: Green 9.12) STEAM PRESSURE: < 1 mm Hg (at 20 °C)

9.3) ODOUR: Odourless **9.13) VAPOR DENSITY:** No data available

9.4) ODOUR THRESHOLD: No data available 9.14) RELATYVE DENSITY: No data available

9.5) POTENTIAL OF HYDROGEN, PH: 4.2 9.15) SOLUBILITY: Soluble. Water: 328 g/l (at 20 °C)

9.6) MELTING POINT: 190 °C (374 °F)
9.16) COEFFICIENT OF PAGANOFTSTEWARTWHO N-OCTANOL/WATER:

No data available

9.7) FREEZING POINT: No data available 9.17) SPONTANEOUS IGNITION TEMPERATURE: No data available

9.8) POINT INITIAL BOILING: Not flammable 9.18) DECOMPOSITION TEMPERATURE: No data available

9.9) EVAPORATION RATE: No data available 9.19) VISCOSITY: No data available

9.10) FLAMMABLE SOLID / GAS: Not flammable 9.20) MOLECULAR MASS: 115 g/mol

9.11) FLAMMABILITY OR EXPLOSIVE LIMITS: 9.21) OTHER RELEVANT DATA: No additional information available

ELI: No data available ELS: No data available



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		SECTION 10: STABILITY	AND REACTIVITY.	
10.1) SUBSTANCE:			10.2) THE DANGEROUS PRODUCTS :	
STABLE: X	UNSTABLE:		Ammonia is released upon reaction with strong bases or from	
INCOMPATIBILITY (SUBSTAN	ICE TO AVOID):		thermal decomposition.	
Alkalis and caustic products; str	ong acids; copper and	its alloys.		
10.3) POLYMERIZATION SPO	NTANEOUS: CA	N OCCUR:	NO CAN OCCUR: X	
Hazardous polymerizati	on will not occur.			
10.4) CONDITIONS TO AVOID	: Welding or hot work o	n equipment or plant which m	nay have contained fertilizer should not be done without first	
washing thoroughly to re	emove all fertilizer.			
	SECTION	N 11: TOXICOLOGICAL II	NFORMATION.	
11.1) INFORMATION ON THE	LIKELY ROUTES OF I	ENTRY: Respiratory, Oral.		
11.2) SYMPTOMS RELATED T	O THE PHYSICAL, CI	HEMICAL AND TOXICOLOG	ICAL CHARACTERISTICS:	
Difficulty in brea	thing. Dry/sore throat.	Symptoms may be delayed.		
11.3) IMMEDIATE AND DELAY	ED, EFFECTS AS WE	LL AS CHRONIC EFFECTS	PRODUCED BY EXPOSURE TO SHORT / LONG TIME:	
Difficulty in brea	thing. Dry/sore throat.	Symptoms may be delayed.		
11.4) CHRONIC EFFECTS PRO	ODUCED BY EXPOSU	RE TO SHORT/LONG TERM	1: No additional information available	
11.5) MEASURES NUMBER O	F TOXICITY (SUCH AS	S ACUTE TOXICITY ESTIMA	TES OF): No additional information available	
11.6) INTERACTYVE EFECTS:	No additional informat	ion available		
11.7) WHEN NOT BE CHEMIC	AL ESPESIFICOS DAT	TA AVAILABLE: No additiona	al information available	
11.8) MIXTURE: No additional i	nformation available	11.9) INFORMATION	ABOUT THE MIXTURES OR CONSTITUENTS: No additional	
		information a	vailable	
11.10) INFORMATION OTHER	: information available			
		ECOLOGICAL INFORM		
12.1) TOXICITY: Ecotoxicity: M	ayrelease ammoniumic	onsthat are toxic to fish. Unior	nized ammonia concentrations >0.02 mg/l are considered toxic	
in fresh water. May rele	ase phosphates whichv	villresult nalgae growth, incre	ased turbidity, and depleted oxygen.	
12.2) PERSISTENCE AND DEC	3RADABILITY:		(Oncorhynchus mykiss) 96-hr: LC50 = > 85.9 mg/L	
' '	•		ron/aluminum phosphates or are incorporated with the organic . I. Phosphates are converted to calcium or	
iron/aluminum phosphates or are incorporated with the organic soil matter.				
12.4) MOBILITY IN SOIL: Stability in Soil: Stable				
12.5) OTHER ADVERSE EFFE	CTS: toxicity: Inorganic	phosphates have the potent	ial to increase the growth of freshwater algae, whose eventual	
death will reduce the av	ailable oxygen for agus	atic life		

13.1) WASTE MANAGEMENT:

Sewage disposal recommendations: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Waste disposal recommendations: Place in an appropriate container and dispose of the contaminated material at a licensed site.

SECTION 13: DISPOSAL CONSIDERATIONS.



14.1) PRODUCTS:

14.2) MIXTURES:

Monoammonium phosphate

Total Nitrogen, as N

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SECTION 14: TRASPORT INFORMATION.					
	STCC	RTECS	No. UN	No. CAS	
	NA	NA	NA	7722-76-1	
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14.3) ENVIRONMENT RISK: No additional information available

14.4) SPECIAL PRECAUTIONS FOR USER: No additional information available

14.5) TRANSPORT IN BULK WITH SUCTION TO ANNEX II OF MARPOL73/78 AND THE CODE CIQ:

No additional information available

SECTION 15: REGULATORY INFORMATION.

15.1) PROVISIONS ESPESIFICAS SAFETY, HEALTH AND ENVIRONMENT FOR DANGEROUS CHEMICALS OR MIXTYRES OF THAT AND TRY:

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: OTHER INFORMATION.

The information is believed to be correct, but is not exhaustive only as guidance which this based on the current knowledge of applicable safety precautions appropriate to the product.

BIBLIOGRAFIC REFERENCES.

NOM-010-STPS-2014, chemical pollutants from the environment job-recognition, evaluation and control.

NOM-026-STPS-2008, colours and signals of safety and hygiene, and identification of risks by fluids in pipes.

NMX-R-019-SCFI-2011, harmonized system of classification and hazard of chemical communication.

NOM-002-SCT-2011, list of substances and more usually hauled hazardous materials.

USCG CHRIS Code; technical details of hazardous chemical substances, 1999.

IPCS, INCHEM, ICSC, Hazard Chemicals date. 2014.

CIQ code: international code for the construction and equipment of ships carrying dangerous chemicals to Bulk adopted by the maritime safety Committee and the Committee for the protection of the marine environment of the Organization through resolutions MSC.4 (48) and MEPC.19 (22),