

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/BLEND AND OF THE SOCIETY/COMPANY

1.1 PRODUCT IDENTIFIER

Name of product : Aminalg NP Mn

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES NOT RECOMMENDED

Liquid foliar fertilizer

1.3 SAFETY DATA SHEET SUPPLIER INFORMATION

Corporate name : ALPHATECH S.A.S.
Address : Z.I. du Grand Plessis - 22940 PLAINTTEL - FRANCE
Tel : (+33) 296 326 990
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1.4 EMERGENCY NUMBER

Organization : INRS/ORFILA +33 (0)1 45 42 59 59; <http://www.centres-antipoison.net>

SECTION 2 : HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (CE) n°1272/2008 :

Skin corrosive : cat. 1 : H314

Eye irritant : cat.2 : H319

Toxic to certain target organs : Cat. 2 : H373

Aquatic Chronic : cat. 2 : H411

2.2 LABEL ELEMENTS

According to Regulation (EC) n°1272/2008 :

Hazard pictogram



Signal word: Danger

Hazard statements

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102: Keep out of reach of children.

P270: Do not eat, drink or smoke while handling the product.

P260: Do not breathe dust/fume/gas/mist/vapours/ spray.

P264: Wash with water thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363: Wash contaminated clothing before reuse.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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P310: Immediately call a POISON CENTER or doctor/physician
P321: Specific treatment (see on first aid chapter).
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405: Store locked up.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container into waste disposal
P314: Get Medical advice/attention if you feel unwell.
P501: Dispose of contents/container into waste disposal
P273: Avoid release to the environment.
P391: Collect spillage.

2.3 OTHER HAZARDS

This substance/mixture does not meet the PBT and vPvB criteria of Annex XIII of the REACH Directive.

SECTION 3 : COMPOSITION/INFORMATION

3.1 SUBSTANCES

Not applicable.

3.2 MIXTURE

Hazardous Components :

Components	N°CAS	EINECS	%	Classification (CE)
Manganese sulphate	7785-87-7	7785-87-7	<20	H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H373: May cause damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects.

SECTION 4 : FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

In case of inhalation: In case of allergies, consult a doctor.

In case of contact with eyes: Rinse open eye thoroughly with soft and clean water during 15 minutes See a doctor immediately. Preferably, to be examined by an ophthalmologist. If the doctor is not available immediately, keep rinsing eyes with water during 15 minutes. If it is necessary for the patient to be transported to the doctor and blindfolded, use a dry and sterile towel and over eyes.

In case of contact with the skin: After contact with skin, first remove product with a dry cloth and then wash the skin with soap and plenty of water. Wash thoroughly with water for at least 15 minutes. See a doctor immediately. Remove contaminated clothing and shoes. Wash thoroughly clothing and shoes. Destroy shoes and clothes which cannot be disinfected.

In case of ingestion: If person is conscious, make him drink several glasses of water. (2 -3). Do not induce vomiting. See a doctor immediately. Do not leave without supervision. Avoid breathing in of vomitus. Lay the victim on his back, the head lower than waist. If vomiting occurs, make sure you clear airway and make drink patient abundantly.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No data is available.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data is available.

SECTION 5 : FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Appropriate extinguishing media: In case of fire, use: Water spray or fog/Foam/Powder polyvalent class ABC/Powder BC/ Carbon dioxide (CO₂).

Inappropriate extinguishing media: In case of fire, do not use: water

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Do not breathe fumes.

In case of fire, it can form: Carbon monoxide (CO) and Carbon dioxide (CO₂).

5.3. ADVICE FOR FIRE-FIGHTERS

Avoid the discharge of extinguishing water into the surrounding natural environment.

SECTION 6: ACCIDENTAL RELEASE MEASURE

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid contact of the spilled product and runoff with soil and surface water.

Avoid the risk of splashing into the eyes and on the skin.

Refer to protective measures listed in sections 7 and 8.

For first aider: Protagonist will be equipped with appropriate personal protective equipment (see section 8).

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent any material from entering drains or waterways.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Clean preferably with a detergent; avoid use of solvents.

6.4. REFERENCE TO OTHER SECTIONS

No data is available.

SECTION 7: HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the blending is handled.

7.1. PRECAUTIONS FOR SAFE HANDLING

Precautions: Wash hands, after each use. Ensure adequate ventilation, especially in confined areas.

Fire prevention: Handle in well-ventilated areas. Prevent access to unauthorized personnel.

Equipment and procedures recommended: For personal protection, see section 8.

Observe precautionary information label as well as health and safety at work laws. Once a container has been opened it should subsequently be stored in an upright position with its original lid firmly in place.

Equipment and procedures forbidden: Eating, drinking and smoking should be prohibited in areas where this material is handled.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Store on impermeable ground with a retention tank so that in the event of a spill the solutions do not spread outside the storage facility. Store the container in a cool, well-ventilated place.

Packaging: Always keep containers made from the same material as the original one.

7.3. SPECIFIC END USE(S)

No data is available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Manganese sulphate	
DNEL / DMEL Workers	
Long-term - systematic, dermal effects	0.00414 mg/kg body weight/day
Long-term - systematic effects, inhalation	0.2 mg/m ³
DNEL / DMEL General population	
Long-term - systematic, dermal effects	0.0021 mg/kg body weight/day
Long-term - systematic, oral effects	No data
Long-term - systematic effects, inhalation	0.043 mg/m ³
PNEC Aquatic	
Aquatic NECP - Freshwater	0.0128 mg/L
Aquatic NECP - Seawater	0.0004mg/L
NECP Sediments	
NECP Sediment - Freshwater	117.8 mg/kg dw
NECP Sediments - Seawater	56.5 mg/kg dw
NECP Earth	
NECP Earth	21.1mg/kg dw

8.2. EXPOSURE CONTROLS



Individual protection measures, such as personal protective equipment: Use clean and properly maintained personal protective equipment. Store personal protective equipment in a clean place, away from working area. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Ensure adequate ventilation, especially in confined areas.

Eye/face protection: Wear eye protection equipment.

Hand protection: Wear chemical resistant gloves

Body protection: Personnel shall wear regularly laundered overalls.

Respiratory protection: Do not breathe fog, steam, aerosol. If the room is not adequately ventilated, wear an acidic gas filter respirator (Type E) recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. PHYSICAL AND CHEMICAL PROPERTIES ESSENTIAL INFORMATION

- **Physical aspect:** Liquid
- **Color:** Brown
- **Odor:** characteristic
- **Melting point/Freezing point:** Not available
- **Boiling point:** Not available
- **Inflammability:** Not available



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- **Lower and upper limit of explosion:** Not available
- **Flash point:** Not available
- **pH:** 1.49
- **Viscosity:** Not available
- **Solubility:** Not available
- **Partition coefficient n-octanol/water:** Not available
- **Vapour pressure:** Not available
- **Density:** 1.22
- **Particle characteristics:** Not available

9.2. OTHER INFORMATION

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No additional information available.

10.2. CHEMICAL STABILITY

This product is stable in normal conditions of storage, handling and usage recommended in section 7.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Exposed to high temperatures, the mixture can release hazardous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide.

10.4. CONDITIONS TO AVOID

No data available.

10.5. INCOMPATIBLE MATERIALS

No data available.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition can unblock/form : carbon monoxide (CO) and/or carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION HAZARD CLASSES

Name of product/Component	Test result	Animal species	Dosage
Manganese sulphate (CAS 10034-96-5)	DL50 oral	Rat	2150 mg/kg bw

- Acute toxicity: No known significant effects or critical hazards.
- Skin corrosion/irritation: Harmful symptoms may possibly include the following: Heartburn;Redness
- Serious eye damage/eye irritation: Harmful symptoms may possibly include the following: Severe eye damage
- Respiratory or skin sensitization: Possible release of irritating/corrosive gases or vapours to the respiratory system.
- Germ cell mutagenicity: No known significant effects or critical hazards.
- Carcinogenicity: No known significant effects or critical hazards.

- Reproductive toxicity: No known significant effects or critical hazards.
- Specific target organ toxicity: No known significant effects or critical hazards.
- Repeated exhibition
 - o Unique exhibition: No known significant effects or critical hazards.
 - o Aspiration hazard: No known significant effects or critical hazards.



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11.2. INFORMATIONS OTHER HAZARDS

No data is available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Highly toxic to aquatic organisms, can cause long-term adverse effects for the aquatic environment.

12.2. PERSISTENCE AND DEGRADABILITY

Not applicable.

12.3. BIOACCUMULATION POTENTIAL

Not applicable.

12.4. MOBILITY IN SOIL

No data available.

12.5. EVALUATION PBT AND vPvB

This substance/mixture does not meet the PBT and vPvB criteria of Annex XIII of the REACH Directive

12.6. ENDOCRINE DISRUPTING PROPERTIES

No data available.

12.7. OTHER ADVERSE EFFECTS

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management or mixture and/or its container must be defined in accordance with directive 2008/98/EC.

13.1. WASTE TREATMENT METHODS

Do not allow into drains, water courses.

Waste: Waste management is done without endangering human health and without requiring the use of processes or methods that could harm the environment. and in particular without risk to water, air, soil and plants and animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Contaminated Packaging: Completely empty container, rinse, drill, dry ; it may be recycled according to local regulation.

SECTION 14 : TRANSPORT INFORMATION

Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

European Regulation:

No restrictions according to Annex XVII of REACH.

Does not contain a candidate substance according to REACH.

SECTION 16 : OTHER INFORMATION

User Working conditions not being known to us , the information given in this SDS is based on the state of our knowledge and on national and community regulations.

The mixture must not be used for other purposes than those specified under section 1 without first obtaining written handling instructions.

It is always the user's responsibility to take all necessary measures to meet the requirements of local laws and regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties of this one.