

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



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

1.1. Product identifier

Product form : Substance
Trade name : HAIFA-MAP 12-61-0
Chemical name : Ammonium dihydrogenorthophosphate
IUPAC name : ammonium dihydrogen phosphate
EC-No. : 231-764-5
CAS-No. : 7722-76-1
REACH registration No : 01-2119488166-29
Formula : H3N.H3O4P
Product group : EC FERTILIZER

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use
Use of the substance/mixture : Fertilizer
Food/feedstuff additives

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

Haifa Chemicals North West Europe BVBA
Generaal de Wittelaan 17
P.O. Box bus 16
B-2800 Mechelen - Belgium
T +32-15-270811 - F +32-15-270815
NorthWestEurope@haifa-group.com - www.haifa-group.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
AMMONIUM DIHYDROGEN PHOSPHATE	(CAS-No.) 7722-76-1 (EC-No.) 231-764-5 (REACH-no) 01-2119488166-29	98	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : Wash off immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Rinse mouth out with water. Drink plenty of water. Consult a doctor/medical service if you feel unwell. Do not induce vomiting without medical advice.

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

- Symptoms/effects after inhalation : Cough. Irritation of the nasal mucous membranes.
- Symptoms/effects after skin contact : Contact during a long period may cause light irritation.
- Symptoms/effects after eye contact : Redness of the eye tissue. Direct contact with the eyes is likely to be irritating.
- Symptoms/effects after ingestion : On ingestion in large quantities: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Chronic symptoms : Possible inflammation of the respiratory tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not combustible.
- Explosion hazard : No data available.
- Hazardous decomposition products in case of fire : Phosphorus oxides. Nitrogen oxides. Ammonia.

5.3. Advice for firefighters

- Precautionary measures fire : Keep upwind.
- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Do not move cargo or vehicle if cargo has been exposed to heat.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. EN 469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Provide adequate ventilation.

6.1.1. For non-emergency personnel

- Protective equipment : Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Even though no specific eye irritation data are available, wear eye protection appropriate to conditions of use when handling this material.

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Emergency procedures : Avoid dust formation. Evacuate unnecessary personnel. Keep upwind. Mark the danger area.
Measures in case of dust release : Dust production: dust mask with filter type P2. Mechanically ventilate the spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Stop leak without risks if possible.

6.3. Methods and material for containment and cleaning up

For containment : Knock down/dilute dust cloud with water spray. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Methods for cleaning up : Collect spillage. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Do not discharge into drains or the environment. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid dust formation. Keep container tightly closed to avoid moisture absorption and contamination. Take off contaminated clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container tightly closed. Direct sunlight.

Incompatible products : Strong bases.

Incompatible materials : Steel. Magnesium. Keep away from iron. Avoid contact with aluminium.

Storage temperature : 0 - 30 °C

Information on mixed storage : Keep away from oxidizers, strong acids and strong bases.

Storage area : Store in a dry area. Store in a well-ventilated place. Store at ambient temperature. Meet the legal requirements.

Special rules on packaging : Keep only in original container.

Packaging materials : Synthetic material. glass. Stainless steel. Paper. Suitable packing materials. Materials to avoid. Iron. Aluminium. Steel.

7.3. Specific end use(s)

Fertilizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HAIFA-MAP 12-61-0 (7722-76-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	34.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.1 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	2.1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.8 mg/m ³
Long-term - systemic effects, dermal	20.8 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.7 mg/l
PNEC aqua (marine water)	0.17 mg/l
PNEC aqua (intermittent, freshwater)	17 mg/l

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



HAIFA-MAP 12-61-0 (7722-76-1)	
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Do not exceed the occupational exposure limits (OEL). Provide adequate ventilation to minimize dust concentrations. Handle product only in closed system or provide appropriate exhaust ventilation.

Personal protective equipment:

Gloves. Protective clothing. Dust formation: dust mask. In case of dust production: protective goggles.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

Protective gloves. EN 407. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). PVC gloves. Butyl rubber. Neoprene

Eye protection:

In case of dust production: protective goggles. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

Personal protective equipment symbol(s):



Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations. Do not allow into drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid. Crystalline powder.
Molecular mass	: 115.03 g/mol
Colour	: Colourless. white.
Odour	: odourless.
Odour threshold	: No data available
pH	: 4 (≥ 5) 1%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈ 190 °C
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: > 190 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.00147 kPa (<0.01 mmHg, 20°C)
Relative vapour density at 20 °C	: No data available

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Relative density	: 1.8
Density	: 1.8 kg/l (19°C)
Solubility	: Soluble in water. Water: 36.8 g/100ml
Log Pow	: < 1
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No direct explosion hazard.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

9.2. Other information

VOC content	: Not applicable
Other properties	: Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (some) acids/bases. Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with (some) bases. Oxidizing Substances. magnesium.

10.4. Conditions to avoid

Avoid dust formation. Heat. Moisture.

10.5. Incompatible materials

alkalis. magnesium. Easily oxidizable materials.

10.6. Hazardous decomposition products

On heating or during combustion : release of (highly) toxic gases/vapours. ammonia. Nitrogen oxides. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

HAIFA-MAP 12-61-0 (7722-76-1)	
LD50 oral rat	5750 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

Skin corrosion/irritation	: Not classified pH: 4 (≥ 5) 1%
Serious eye damage/irritation	: Not classified pH: 4 (≥ 5) 1%
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.
Ecology - air : Not dangerous for the ozone layer.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

HAIFA-MAP 12-61-0 (7722-76-1)

LC50 fish 1	85.9 mg/l
-------------	-----------

12.2. Persistence and degradability

HAIFA-MAP 12-61-0 (7722-76-1)

Persistence and degradability	Not applicable.
-------------------------------	-----------------

12.3. Bioaccumulative potential

HAIFA-MAP 12-61-0 (7722-76-1)

Log Pow	< 1
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

HAIFA-MAP 12-61-0 (7722-76-1)

Ecology - soil	Soluble in water.
----------------	-------------------

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : This material and its container must be disposed of in a safe way, and as per local legislation.
Product/Packaging disposal recommendations : Recycle the material as far as possible. Disposal must be done according to official regulations. Do not discharge into surface water.
Additional information : Non hazardous waste.
European List of Waste (LoW) code : 02 01 09 - agrochemical waste other than those mentioned in 02 01 08
06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

HAIFA-MAP 12-61-0 is not on the REACH Candidate List

HAIFA-MAP 12-61-0 is not on the REACH Annex XIV List

VOC content : Not applicable

15.1.2. National regulations

No additional information available

Safety Data Sheet

HAIFA-MAP 12-61-0

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Revision date:20/09/2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product