

SAFETY DATA SHEET**MAP NP 52-11**

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 28.02.2020

1.1. Product identifier

Product name MAP NP 52-11
Synonyms Monoammoniumfosfat 11-52
Information on the packaging Size of packaging: 600 kg

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

Use of the substance / preparation Fertilizer.
Industrial use Yes
Professional use Yes
Consumer use No

1.3. Details of the supplier of the safety data sheet

Company name Belor Agro Oy
Postal address Salorankatu 5-7
Postcode 24240
City Salo
Country Finland
Telephone number +358 500 933 158
Email info@beloragro.fi
Website <http://www.beloragro.fi>
Enterprise No. FI2132672-0

1.4. Emergency telephone number

Emergency telephone Telephone number: 112
Description: Emergency telephone number (in Finland) Open 24 hours a day.
Telephone number: +358 800 147 111 or +358 9 471 977

Identification, comments	Description: Poison Information Centre (in Finland), P.O. Box 790 (Tukholmankatu 17), 00029 HUS Open 24 hours a day. Please contact the Emergency Centre in your own country, e.g. 112 in European Union countries.
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, notes	In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has not been classified as hazardous.
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2.2. Label elements

Other label information (CLP)	No labeling. In accordance with current regulations, this product has not been classified as hazardous.
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2.3. Other hazards

PBT / vPvB	For results of PBT and vPvB assessment, see point 12.5.
Physicochemical effects	Risk for dust explosion.
Health effect	Dust in high concentrations may irritate the respiratory system.
Other hazards	None reported.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance type	Inorganic			
Substance	Identification	Classification	Contents	Notes
Monoammonium phosphate	CAS No.: 7722-76-1 EC No.: 231-764-5	CLP classification, notes: Not classified.		
Description of the mixture	Mixture of nutrient salts based on inorganic salts.			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If the situation is unclear or symptoms persist, seek medical attention. Show this safety data sheet, product container or label to the doctor in attendance.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Wash contaminated skin thoroughly with plenty of soap and water. Get medical attention if skin irritation persists.
Eye contact	Immediately flush eyes with plenty of water for several minutes, holding eyelids open. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation or other symptoms persist, seek medical attention.
Ingestion	Rinse mouth thoroughly. Do NOT induce vomiting. Get medical attention if

symptoms occur.

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

Acute symptoms and effects	Ingestion may cause nausea, vomiting and diarrhea. Inhalation of dust may cause respiratory irritation.
Delayed symptoms and effects	None known.

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

Other information	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO ₂ or water spray. In large fires, use water spray (fog) or alcohol-resistant foam.
Improper extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product may form combustible dust concentrations in the air during handling.
Hazardous combustion products	In the event of fire, health hazardous and toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO ₂). Ammonia. Phosphorus oxides (PO _x). Sulphur oxides (SO _x).

5.3. Advice for firefighters

Personal protective equipment	Wear appropriate protective equipment and self-contained breathing apparatus.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Ensure adequate ventilation. Avoid generation and spreading of dust. Remove all sources of ignition.
Personal protection measures	Wear appropriate personal protective equipment. Avoid breathing dust.

6.2. Environmental precautions

Environmental precautionary measures	Prevent entry of spilt material into drains, sewers or waterways .
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6.3. Methods and material for containment and cleaning up

Clean up	Pick up mechanically. Collect product with tested and approved industrial vacuum cleaner if necessary. Store in sealed container for recovery or disposal.
Other information	Avoid generation and spreading of dust.

6.4. Reference to other sections

Other instructions	Safe handling: see point 7. Personal protective equipment: see point 8. Waste disposal: see point 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Ensure adequate ventilation. Avoid inhalation of dust, smoke or mist. Avoid contact with the eyes. Use appropriate personal protective equipment while handling the product (see point 8).
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Protective safety measures

Safety measures to prevent fire	High concentrations of dust may form explosive mixture with air.
Preventive measures to prevent aerosol and dust generation	Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed.
Advice on general occupational hygiene	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Vacuum contaminated clothing. Do not brush off contamination.

7.2. Conditions for safe storage, including any incompatibilities

Conditions to avoid	Keep away from moisture and water. Store away from food, drink and animal feedstuffs. In case of bulk storage, do not mix with other fertilizers. For incompatible materials see point 10.5.
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Conditions for safe storage

Technical measures and storage conditions	Store in a cool, dry, well-ventilated area.
Requirements for storage rooms and vessels	Keep container tightly closed.

7.3. Specific end use(s)

Specific use(s)	None reported.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Dusts, respirable dust		Limit value (8 h) : 4 mg/m ³	
Dusts, total inhalable dust		Limit value (8 h) : 10 mg/m ³	

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Technical measures to prevent exposure	Ensure adequate ventilation. Use local exhaust ventilation if necessary.
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Eye / face protection

Suitable eye protection	Use tight-fitting safety goggles.
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Hand protection

Suitable gloves type	Wear appropriate chemical resistant safety gloves (EN 374).
Suitable materials	Nitrile rubber. Butyl rubber. Viton™. Neoprene. Contact glove manufacturer for specific advice on glove selection.

Skin protection

Suitable protective clothing	Wear appropriate protective clothing.
Additional skin protection measures	Use barrier creams to prevent skin contact.

Respiratory protection

Respiratory protection necessary at	Wear suitable respiratory protection.
Recommended type of equipment	In case of brief exposure or low concentrations, use filter device. At high concentrations, a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus).
Recommended respiratory protection	Mask type: Short term exposure: Use respiratory equipment with particle filter, type P1. Reference to relevant standard: EN 149

Appropriate environmental exposure control

Environmental exposure controls	Prevent entry into drains, sewers or waterways.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Solid: granular
Colour	Unknown.
Odour	Mild. Characteristic.
Odour limit	Comments: Unknown.
pH	Status: In aqueous solution Value: 4,4 - 5,0 Temperature: 20 °C Concentration: 0,1 %
Melting point / melting range	Value: 190 °C
Boiling point / boiling range	Comments: Unknown.

Flash point	Comments: Not applicable.
Evaporation rate	Comments: Not relevant.
Flammability (solid, gas)	Unknown.
Explosion limit	Comments: Not applicable.
Vapour pressure	Comments: Not applicable.
Vapour density	Comments: Not applicable.
Density	Value: 1,8 kg/l
Bulk density	Value: ~ 1000 kg/m ³ Temperature: 20 °C
Solubility	Medium: Water Value: 100 g/l Temperature: 20 °C
Partition coefficient: n-octanol/ water	Comments: Unknown.
Spontaneous combustability	Comments: Not self-igniting.
Decomposition temperature	Comments: Unknown.
Viscosity	Comments: Not applicable.
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

9.2. Other information

Other physical and chemical properties

Comments	None reported.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Not reactive under normal use and storage conditions.
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10.2. Chemical stability

Stability	Chemically stable under normal storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No dangerous reactions under normal use and storage conditions.
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10.4. Conditions to avoid

Conditions to avoid	Water, moisture.
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10.5. Incompatible materials

Materials to avoid	Acids. Bases. Flammable/combustible materials. Organic compounds.
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10.6. Hazardous decomposition products

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
In a fire or if overheated, toxic and irritating gases and vapours may be formed. Carbon monoxide (CO). Carbon dioxide (CO₂). Ammonia or amines. Phosphorus oxides (PO_x). Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other toxicological data

The product is not classified as acutely toxic.

Other information regarding health hazards

Assessment of skin corrosion / irritation, classification

The product is not classified as irritant or corrosive to skin.

Assessment of eye damage or irritation, classification

The product is not classified as damaging or irritating to eyes.

Sensitisation

The product is not classified as a respiratory or skin sensitiser.

Mutagenicity

The product is not classified as a mutagen.

Carcinogenicity, other information

The product is not classified as a carcinogen.

Reproductive toxicity

The product is not classified as toxic to reproduction.

Assessment of specific target organ toxicity - single exposure, classification

The product is not classified as toxic to specific target organs at a single exposure.

Assessment of specific target organ toxicity - repeated exposure, classification

The product is not classified as toxic to specific target organs at repeated exposure.

Assessment of aspiration hazard, classification

The product is not classified as an aspiration hazard.

Symptoms of exposure

In case of ingestion

May cause nausea, vomiting and diarrhea.

In case of inhalation

Dust in high concentrations may cause irritation.

Other information

None reported.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

The product is not classified as hazardous to the environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Own classification (German water hazard class WGK 1): low hazard to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	No data available.
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation	No data available.
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12.4. Mobility in soil

Mobility	No data available.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Chemical safety assessment has not been made for this substance.
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12.6. Other adverse effects

Additional ecological information	Danger to drinking water is possible if large quantities leak into the ground or into water course.
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SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Appropriate methods of disposal for the chemical	Smaller quantities can be disposed of with household waste. Product is used as a fertilizer. Check the possibility for agricultural use before disposal.
EWC waste code	EWC waste code: 02 01 09 agrochemical waste other than those mentioned in 02 01 08 Classified as hazardous waste: No
Other information	Dispose of in compliance with local and national regulations.

SECTION 14: Transport information**14.1. UN number**

Comments	The product is not classified for transportation.
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14.2. UN proper shipping name**14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards**

IMDG Marine pollutant	No.
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14.6. Special precautions for user**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Transport in bulk (yes/no)	No
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SECTION 15: Regulatory information

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

Water hazard class (DE)	Water hazard class (WGK): 1: low hazard to waters
Legislation and regulations	Regulation (EU) 2019/1009 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Training advice	Read safety data sheet.
Key literature references and sources for data	SDS by product manufacturer (17.01.2014) EH40/2005 Workplace exposure limits (3rd ed, 2018)
Abbreviations and acronyms used	DNEL: Derived No-Effect Level PNEC: Predicted No-Effect Concentration TWA: Time-weighted average WGK: German water hazard class
Version	1
Prepared by	Sweco AB
Comments	The information of this safety data sheet is based on existing public information sources, such as current legislation, available at the time of publication of the completed safety data sheet, and information on the Customer's products that has been provided by the Customer to Sweco. The Customer is responsible that the information provided to Sweco is accurate and up to date.