

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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AminoXtrem

Revision 1

Revision date 01-12-15

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

1.1. Product identifier

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

Description	Fertiliser
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1.3. Details of the supplier of the safety data sheet

Company	Metrop Agrotechniek
Address	Edisonweg 32 3404LC IJsselstein Netherlands
Web	www.metrop.net
Telephone	+31 (0)30 6877274
Fax	+31 (0)30 6877423
Email	info@metrop.nl

Local Supplier

Company	
Address	
Web	
Telephone	
Fax	
Email	

1.4. Emergency telephone number

Emergency telephone number	+31 (0)30 6877274 09:00-17:00 GMT
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SECTION 2: Hazards identification

2.1. Emergency Overview:

Flammability Rating:	0 - None.
Reactivity Rating:	0 - None.

2.2. Potential Health Effects:

Inhalation:	Possible damage to the airways. Mist or vapour can cause irritation to the nose, throat and upper respiratory tract.
Ingestion:	Possible damage to digestive tract.
Skin contact:	Prolonged contact with skin can cause irritation. Symptoms include redness and itching.
Eye contact:	Contact with eyes can cause irritation.
Chronic exposure:	No negative effects have been produced on people who have been handling the product in the factory with direct exposure for several years.

2.3. Label elements

Risk phrases	The product is classified as non hazardous. No Significant Hazard.
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2.4. Other hazards

Other hazards	None.
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SECTION 3: Composition/information on ingredients**3.1. Mixtures**

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration	Conc. (%w/w)	Classification
Amino acid mixture		NA (mixture)			850 mg/l	N.A
Mono ammonium phoshate		7722-76-1				N.A
Ammonium nitrate		6484-52-2				R 8, R 9
Phosphoric acid		7664-38-2			1.20%	R 34

The wording of the hazard symbols and R-phrases is specified in chapter 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Move the exposed person to fresh air.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. No medical attention will be required.
Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Clean the shoes before re-use.
Ingestion	INDUCE VOMITING WHEN SWALLOWED. Seek medical attention if irritation or symptoms persist. Give plenty of water. No urgent actions will be required.
Note to physician	Treat according to symptoms. No need for specific antidote.

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

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.

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

Inhalation	Inhalation of vapour may cause shortness of breath. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water.
Skin contact	No sensitization effects reported. Wash with soap and water.
Ingestion	May cause irritation to mucous membranes.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Use extinguishing media appropriate to the surrounding fire conditions. Water spray may be used to cool off containers exposed to fire. If water is used, use it in abundance to control the heat.
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5.2. Special hazards arising from the substance or mixture

	Not considered as a fire hazard. Contact with metals and chemical products does not produce fire.
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5.3. Explosion

	Not considered as an explosion hazard.
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5.4. Special information

	In the event of a fire, wear full protective clothing against fire, and a contained breathing apparatus with full face piece operating in the pressure demand or other positive pressure mode.
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5.5. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	No personal protective equipment is required.
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6.2. Environmental precautions

	No special requirements for ventilating the area in case of a leak or a spill.
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6.3. Methods and material for containment and cleaning up

	Contain and recover liquid when possible. Not required to neutralise the liquid. The product is environmentally friendly.
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6.4. Reference to other sections

	See section 2, 8, 13 for further information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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7.3. Specific end use(s)

	Avoid direct sunlight as it has a degrading effect on the substance. Keep above 0° C to prevent frost damage and below 35°C.
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SECTION 8: Exposure controls/personal protection**8.1. Airborne exposure limits, TLV value**

	There are no limitations on the airborne exposure. No TLV value.
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8.1.1. Exposure Limit Values

Potassium Nitrate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m³: 20.8
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8.2. Ventilation system

	Ventilation of the general exhaust is not imperative.
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8.3. Personal respiratory protection (NIOSH Approved)

	Neither personal respirator is required, nor full-face piece respirator.
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8.4. Hand and body protection:

	Impervious protective clothing, gloves, boots, aprons or overalls are not required.
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8.5. Eye protection

	Wear chemical safety goggles or a full-face shield if the substance is splashing.
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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Clear yellow to brown
odour	Light odour of ammonia
pH	2.0 - 3.0
Solubility	miscible in all proportions in water
Specific gravity	1.01 at 25°C
Melting point	No data available
Boiling point	100°C
Freezing point	- 1.0 °C
Flash point	Not applicable
Evaporation rate	No data available
Flammability	Not flammable
Vapour Flammability	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.51 - 1.55 (Water = 20 °C)
Partition coefficient	Not applicable
Autoignition temperature	Not applicable
Viscosity	No data available
Explosive properties	Non explosive
Oxidising	Not applicable

9.2. Other information

Conductivity	no data available
Surface tension	no data available
Gas group	no data available
Benzene Content	no data available
Lead content	no data available
VOC (Volatile organic compounds)	no data available
Water solubility	Soluble in water. Soluble in water.

SECTION 10: Stability and reactivity**10.1. Reactivity**

	Stable under normal conditions.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No hazardous reaction products may be formed when heated.
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10.4. Conditions to avoid

	Do not store in areas with pathogen outbreak possibilities.
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10.5. Hazardous reaction products

	No hazardous reaction products may be formed when heated
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10.6. Thermal decomposition

	No decomposition if stored and handled as prescribed.
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SECTION 11: Toxicological information**11.1. Information on toxicological effects**

LD 50 oral (rat):	Not greater than 2000 mg/kg. Classified as "low oral toxicity". No death.
LD 50 oral (mouse):	> 2000 mg/Kg. No death.
Oral to CD rats 4 weeks:	Up to 4000 mg/kg/day did not elicit any evidence of toxicity. No death. No LD.50 found.
Oral to dogs 4 weeks:	Up to 2500 mg/Kg/day did not elicit any evidence of toxicity. No death.
Mutagenicity:	Not mutagenic or neoplastic. No mutagenic activity in histidine auxotrophos of Salmonella T.
Carcinogenicity:	Not carcinogenic.
Teratogenicity:	Not teratogenic

SECTION 12: Ecological information**12.1. Ecotoxicity:****12.1.1. Acute toxicity to fish (spawn, young fish, sturgeon larva, Daphnia Magna):**

	No negative or toxic effects observed. LC50 >3000 mg/L. No data is available on this product.
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12.1.2. Chronic toxicity to fish (spawn, young fish, sturgeon larva, Daphnia Magna)

	No negative or toxic effects observed. LDO >2.344 mg/L LD100 >3000 mg/L.
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12.1.3. Toxic effects on algae:

	No growth inhibition observed.
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12.1.4. Toxic effects on soil organism:

	No toxic effects observed
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12.1.5. Toxic effects on birds:

	No toxic effects to birds.
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12.1.6. Toxic effects on pollinating insects:

	No acute toxicity to bees.
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12.2. Environmental effects:

	This product is an environmentally friendly product. When released into the soil, it improves the fertility of soil. The product has a very short persistence in the
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SECTION 13: Waste disposal considerations

This product does not require special disposal consideration. Recovery or recycling should be handled as hazardous waste. In case the product is contaminated during the storage by other contaminants the waste management has to take care of its elimination or removal. This will be carried out in a waste facility in accordance with regulations or requirements of the European Community, or local government or state.

SECTION 14: Transport information**14.1 Domestic (land, D.O.T.):**

Proper shipping name:	Fertilizer
Hazard class:	none
UN/NA:	none
Packing:	group III
Information reported for product/size:	none

14.2 International (water, I.M.O.):

Proper shipping name:	Fertilizer
Hazard Class:	none
UN/NA:	none
Packing:	group III
Information reported for product/size:	none

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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15.2. Chemical safety assessment

	No data is available on this product.
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SECTION 16: Other information**Other information**

NFPA Ratings:	Not found
Product use:	Agriculture
Risk phrases meanings:	
R8:	Contact with combustible material may cause fire.
R9:	Explosive when mixed with combustible material.
R34:	Causes burns.

DISCLAIMER

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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