

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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MAM

Revision 1 Revision date 01-12-15

SECTION 1: Identification o	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	MAM
	es of the substance or mixture and uses advised against
Description	Fertiliser
1.3. Details of the supplier	
Company	Metrop Agrotechniek
Address	Edisonweg 32
Address	3404LC
	IJsselstein
	Netherlands
Web	www.metrop.net
	+31 (0)30 6877274
Telephone	
Fax	+31 (0)30 6877423
Email	info@metrop.nl
Local Supplier	4
Company Address	
Web	
Telephone	
Fax	
Email	
1.4. Emergency telephone	
Emergency telephone	+31 (0)30 6877274
number	09:00-17:00 GMT
SECTION 2: Hazards identified	cation
2.1. Classification of the sul	ostance or mixture
2.1.1. Classification -	Xi; R36/37/38
67/548/EEC	Symbols: Xi: Irritant
Main hazards	Irritating to eyes, respiratory system and skin.
2.1.2. Classification - EC	Skin irrit.2: H315; Eye irrit. 2: H319; STOT SE 3: H335;
1272/2008	
2.2. Label elements	
Hazard pictograms	\wedge
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation
	Eye Irrit. 2: H319 - Causes serious eye irritation
	STOT SE 3: H335 - May cause respiratory irritation.
Precautionary Statement:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
Prevention	P264 - Wash thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement:	P302+P352-IF ON SKIN: Wash with plenty of water.
Response	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.

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	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P312 - Call a POISON CENTER/doctor if you feel unwell
	P321 - Specific treatment (see on this label)
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
Precautionary Statement:	P403 + P233 -Store in a well-ventilated place.Keepcontainer tightly closed.
Storage	P405 - Store locked up
Precautionary Statement:	P501 -Dispose of contents/container to waste collection or recycling, after thorough
Disposal	rinsing, if in compliance with local and national regulations

SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/	EC					
Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classifi- cation
Ammonium Nitrate	6484-52-2	229-347-8			20-30 %	O; R8-9 Xi; R36/37/38
Potassium Nitrate	7757-79-1	231-818-8			10-20 %	O; R8
Zinc disodium	14025-21-9	237-865-0			1-10 %	
ethylenediaminetetraace (Zinc EDTA)	tate					
Cobalt disodium	15137-09-4	239-198-0			0-0,5 %	Xn; R40 Xi; R36/38
ethylenediaminetetraace	tate					
(Cobalt EDTA)						
EC 1272/2008						
Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classifi- cation
Ammonium Nitrate						Ox. Sol. 1:
	6484-52-2	229-347-8			20-30 %	H271; Skin
						Irrit. 2:
						H315; Eye
						Irrit. 2:
						H319:

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classifi- cation
Ammonium Nitrate	6484-52-2	229-347-8			20-30 %	Ox. Sol. 1: H271; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335
Potassium Nitrate	7757-79-1	231-818-8			10-20 %	Ox. Sol. 3:
Zinc disodium ethylenediaminetetra- acetate (Zinc EDTA)	14025-21-9	237-865-0			1-10 %	
Cobalt disodium ethylenediaminetetra- acetate (Cobalt EDTA)	15137-09-4	239-198-0			0-0,5 %	Skin Irrit. 2: Eye Irrit. 2: H319; Carc. 2: H351;

	See section 3.2 for further information.	
SECTION 4: First aid measures		
4.1. Description of first aid measures		
Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the	
	chest and irritation of the respiratory system. Move the exposed person to fresh air.	
	Seek medical attention.	

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Eye contact	Irritating to eyes. Rinse immediately with plenty of v		
	eyelids openRemove contact lenses, if present and ea	0	
	medical attention if irritation or symptoms persist.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Skin contact	Irritating to skin. Wash off immediately with plenty	of soap and water. Remove	
	contaminated clothing. Seek medical attention if irr		
Ingestion	Ingestion may cause nausea and vomiting. Seek medi	, , , ,	
U	symptoms persist. DO NOT INDUCE VOMITING.		
4.2. Most important sympton	oms and effects, both acute and delayed		
Inhalation	May cause irritation to respiratory system.		
Eye contact	Causes serious eye irritation.		
Skin contact	Causes skin irritation.		
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 for 15 minut	es holding the eyelids open.	
	Remove contact lenses, if present and easy to do. Co	ntinue rinsing.	
Skin contact	Rinse immediately with plenty of water. Wash with s	soap and water.	
Ingestion	Caution - substance not yet fully tested. May cause ir	ritation to mucous membranes.	
SECTION 5: Firefighting mea 5.1. Extinguishing media	isures		
5.1. Extinguishing metula	Carbon dioxide (CO2)		
5.2 Special hazards arising	from the substance or mixture		
	Burning produces irritating, toxic and obnoxious fu	Imes	
5.3. Advice for firefighters		inics.	
S.S. Advice for mengilters	Wear suitable respiratory equipment when necessa	ry	
		· y	
SECTION 6: Accidental relea	ase measures		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
	Ensure adequate ventilation of the working area. Wear suitable protective	
	equipment.	
6.2. Environmental precautions		
	Do not allow product to enter drains. Prevent further spillage if safe.	
6.3. Methods and material for containment and cleaning up		
	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled	
	containers for disposal. Clean spillage area thoroughly with plenty of water.	

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	
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.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values			
Cobalt disodium	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.1	
ethylenediaminetetra-	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:	
acetate	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -	
(Cobalt EDTA)	inhalable dust:	inhalable dust:	
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -	
	respirable dust:	respirable dust:	

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Potassium Nitrate	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 20.8
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 10
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
Zinc disodium	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3:10
ethylenediaminetetra-	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 3
acetate	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
(Zinc EDTA)	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:
8.2. Exposure controls		

8.2.1. Appropriate	Ensure adequate ventilation of the working area.
engineering controls	
8.2.2. Individual protection	Wear chemical protective clothing
measures	
Eye / face protection	Approved safety goggles
Skin protection -	Chemical resistant gloves (pvc)
Handprotection	
Respiratory protection	Wear:. Suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic pl	nysical and chemical properties
Appearance	Liquid
Colour	Green
odour	Mild
Odour threshold	No data available
рН	3.5 - 5
Melting point	
Initial boiling point	
Flash point	Not applicable
-	No data available
Flammability (solid, gas)	
Vapour pressure	No data available
• •	No data available
•	1.43 - 1.48 (H2O = 1 @ 20 °C)
Partition coefficient	
Autoignition temperature	
•	No data available
Explosive properties	
Oxidising properties	
	Soluble in water
9.2. Other information	
	No data available
Surface tension	
Gas group	No data available
Benzene Content	
Lead content	
VOC (Volatile organic)	
compounds)	

SECTION 10: Stability and reactivity

MAM

10. Chemical stability Stable under normal conditions. **SECTION 11: Toxicological information** 11.1. Information on toxicological effects No data is available on this product. Acute toxicity Skin corrosion/irritation Causes skin irritation Serious eye damage/irritati Causes serious eye irritation. **Respiratory or skin** May cause sensitisation by inhalation and skin contact sensitisation No data is available on this product. Germ cell mutagenicity No data is available on this product. Carcinogenicity 11.1.2. Mixtures No data is available on this product. 11.1.3. Hazard Information Irritating to eyes and skin. 11.1.4. Toxicological Information **Ammonium Nitrate** Dermal Rat LD50: 2950 Oral Rat LD50: 2000 Cobalt disodium ethylene- Oral Rat LD50; 2000 diaminetetraacetate **Potassium Nitrate** Dermal Rat LD50: 2000 Oral Rat LD50: 2000 Zinc disodium ethylene-Inhalation Rat LC50/4 h: 2.75 Oral Rat LD50: 5000 mg/kg diaminetetraacetate **SECTION 12: Ecological information** 12.1. Toxicity Ammonium Nitrate Fish LC50/96h: 100 mg/l Algae LC50/96h: 1700 Potassium Nitrate Daphnia EC50/48h: 490.0000 mg/l Algae IC50/72h: 1700.0000 mg/l Fish LC50/96h: 1378.0000 mg/l 12.3. Bioaccumulative potential **Partition coefficient** Ammonium Nitrate Not applicable **Potassium Nitrate** Not applicable Zinc Disodium ethylene-No data available diaminetetraacetate May cause long-term adverse effects in the aquatic environment. **SECTION 13: Disposal considerations General information** Dispose of in compliance with all local and national regulations. **Disposal methods** Contact a licensed waste disposal company. Disposal of packaging Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling. **SECTION 14: Transport information** ADR/RID The product is not classified as dangerous for carriage. IMDG The product is not classified as dangerous for carriage. ΙΑΤΑ The product is not classified as dangerous for carriage. **Further information** The product is not classified as dangerous for carriage.

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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.	

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Ot	her information
Other informat	ion

Other information	
Text of risk phrases in	R8 - Contact with combustible material may cause fire
Section 3	R9 - Explosive when mixed with combustible material.
	R36/37/38 - Irritating to eyes, respiratory system and skin.
	R36/38 - Irritating to eyes and skin
	R40 - Limited evidence of a carcinogenic effect.
Text of Hazard Statements	Ox. Sol. 1: H271 - May cause fire or explosion; strong oxidiser
in Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	STOT SE 3: H335 - May cause respiratory irritation
	Ox. Sol. 3: H272 - May intensify fire; oxidiser.
	Carc. 2: H351 - Suspected of causing cancer .
Further information	•
	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.