

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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MR2

Revision 1

Revision date 01-12-15

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

1.1. Product identifier	
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Product name	MR2
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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. Classification of the substance or mixture**

Main hazards	No Significant Hazard
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2.2. Label elements

Risk phrases	No Significant Hazard.
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2.3. Other hazards

Other hazards	None.
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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)	Classification
Disodium octaborate tetrahydrate		12280-03-4	234-541-0		0-0,5%	T;R60-61
Potassium Nitrate		7757-79-1	231-818-8		40-50%	O; R8
Magnesium Nitrate Hexahydrate		13446-18-9	233-826-7		1-10%	Xi; R36

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Disodium octaborate tetrahydrate		12280-03-4	234-541-0		0-0,5%	Repr.1B: H360FD
Potassium Nitrate		7757-79-1	231-818-8		40-50%	Ox. Sol. 3: H272;
Magnesium Nitrate Hexahydrate		13446-18-9	233-826-7		1-10%	Eye Irrit. 2: H319;

3.2. Mixtures

	See section 3.1 for further information.
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SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	May cause irritation to mucous membranes. 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. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

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

Inhalation	No Significant Hazard.
Eye contact	No known adverse health effects.
Skin contact	No irritation expected
Ingestion	No Significant Hazard

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

	No first aid requirements
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. 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**

	Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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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.
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6.4. Reference to other sections

	See section 2 & 3 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
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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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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

Potassium Nitrate	WEL 8-hr limit ppm: WEL 15 min limit ppm: WEL 8-hr limit mg/m³ total inhalable dust: WEL 8-hr limit mg/m³ total respirable dust:	WEL 8-hr limit mg/m³: 20.8 WEL 15 min limit mg/m³: 10 WEL 15-min limit mg/m³ total inhalable dust: WEL 15 min limit mg/m³ total respirable dust:
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8.2. Exposure controls

				
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.			
8.2.2. Individual protection measures	Wear protective clothing.			
Eye / face protection	In case of splashing, wear: Approved safety goggles.			
Skin protection - Handprotection	Chemical resistant gloves (PVC).			

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Green
odour	Mild
Odour threshold	No data available
pH	3.75 - 5.25
Melting point	<-1 °C
Initial Boiling point	>100 °C
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.56 - 1.6 (Water = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Gas group	no data available
Benzene Content	Not determined
Lead content	Not determined
VOC (Volatile organic compounds)	Not determined

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

	No Significant Hazard
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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard

10.4. Conditions to avoid

No Significant Hazard

10.5. Incompatible materials

No data is available on this product

10.6. Hazardous decomposition products

No data available on this product.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

No data is available on this product.

Acute toxicity

No Significant Hazard.

Skin corrosion/irritation

No Significant Hazard.

Serious eye damage/irritation

May cause irritation to eyes.

Respiratory or skin sensitisation

No Significant Hazard.

Germ cell mutagenicity

No data is available on this product.

Carcinogenicity

No data is available on this product.

Reproductive toxicity**11.1.4. Toxicological Information**

Disodium octaborate tetrahydrate	Oral Rat LD50: 2550mg/Kg	Dermal Rabbit LD50: >2000mg/Kg
Potassium Nitrate	Dermal Rat LD50: 2000	Oral Rat LD50: 2000

SECTION 12: Ecological information**12.1. Toxicity**

Disodium octaborate tetrahydrate	Daphnia EC50/48h: 113.0000 mg/l Fish LC50/96h: 80.0000 mg/l Daphnia LC50/24h: 242mg/l	Algae IC50/72h: 10.0000 mg/l Green algae EC50/96h: 24mg/L
Potassium Nitrate	Daphnia EC50/48h: 490.0000 mg/l Fish LC50/96h: 1378.0000 mg/l	Algae IC50/72h: 1700.0000 mg/l Algae IC50/72h: 1700.0000 mg/l
Magnesium Nitrate Hexahydrate	Daphnia EC50/48h: 490.0000 mg/l	Fish LC50/96h: 1378.0000 mg/l

12.3. Bioaccumulative potential

Partition coefficient	
Potassium Nitrate	No data available
Disodium octaborate tetrahydrate	Not applicable
Magnesium Nitrate Hexahydrate	Not applicable

Further information

	No data is available on this product
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SECTION 13: Disposal considerations**General information**

	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

	Empty containers can be cleaned with water. Empty containers can be sent to
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SECTION 14: Transport information**ADR/RID**

	The product is not classified as dangerous for carriage.
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IMDG

	The product is not classified as dangerous for carriage.
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IATA

	The product is not classified as dangerous for carriage.
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Further information

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	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. 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.
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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**

Text of risk phrases in Section 3	R8 - Contact with combustible material may cause fire. R36 - Irritating to eyes R60 - May impair fertility R61 - May cause harm to the unborn child.
Text of Hazard Statements in Section 3	Ox. Sol. 3: H272 - May intensify fire; oxidiser. Eye Irrit. 2: H319 - Causes serious eye irritation.

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.
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