

# 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

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)	Classifi- cation
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	<b>WEL 8-hr limit ppm:</b>	<b>WEL 8-hr limit mg/m3: 20.8</b>
	<b>WEL 15 min limit ppm:</b>	<b>WEL 15 min limit mg/m3: 10</b>
	<b>WEL 8-hr limit mg/m3 total inhalable dust:</b>	<b>WEL 15-min limit mg/m3 total inhalable dust:</b>
	<b>WEL 8-hr limit mg/m3 total respirable dust:</b>	<b>WEL 15 min limit mg/m3 total respirable dust:</b>

**8.2. Exposure controls**

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

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

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

**9.2. Other information**

<b>Gas group</b>	no data available
<b>Benzene Content</b>	Not determined
<b>Lead content</b>	Not determined
<b>VOC (Volatile organic compounds)</b>	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.
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**10.3. Possibility of hazardous reactions**

	No Significant Hazard
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**10.4. Conditions to avoid**

	No Significant Hazard
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**10.5. Incompatible materials**

	No data is available on this product
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**10.6. Hazardous decomposition products**

	No data available on this product.
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**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**

<b>Partition coefficient</b>	
Potassium Nitrate	No data available
Disodium octaborate tetrahydrate	Not applicable
Magnesium Nitrate Hexahydrate	Not applicable
<b>Further information</b>	
	No data is available on this product

**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**

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