

# SAFETY DATA SHEET

## 1 IDENTIFICATION OF SUBSTANCE/PREPARATION AND THE SUPPLYING COMPANY:

**PRODUCT NAME:** Metrop 20-20-20 (bio 20)  
**PRODUCT CODE:** 07  
**SUPPLIER:** Agrotechniek Metrop,  
Postbus 169,  
3400 AD IJsselstein UT,  
Netherlands.  
Tel.: + 31 (0)30 6877 274  
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## 2 COMPOSITION/INFORMATION ON INGREDIENTS:

### Hazardous ingredients

	Conc.	Cas	Einecs	Symbols/risk phrases
Sodium Metabisulphite (Disodium disulphite)	0-0.5%	7681-57-4	231-673-0	Xn; R22 Xi; R41 R31
Magnesium Nitrate Solution	1-10%	10377-60-3	233-826-7	O;R8 Xi;R36 Xi;R37
Ammonium Nitrate	10-20%	6484-52-2	229-347-8	O;R8 O;R9 Xi;R36 Xi;R37 Xi;R38

- 2a** -**Total Nitrogen (N) 10%**  
    **Nitrate Nitrogen**  
    magnesium nitrate / potassium nitrate
- Ammoniacal Nitrogen**  
    ammonium phosphate / ammonium nitrate
- Phosphoric Acid (P2O5) 40%**  
    ammonium phosphate
- Potassium Oxide (K2O) 20%**  
    potassium nitrate
- Magnesium (MgO)**  
    **Magnesium (Mg)**  
    magnesium nitrate

## 3 HAZARDS IDENTIFICATION:

MAIN HAZARDS: Irritating to eyes and respiratory systems

## 4 FIRST AID MEASURES:

SKIN CONTACT: Irritation to skin, Wash off Immediately with plenty of soap and water. Remove contaminated clothing. Seek Medical attention if irritation or symptoms persist.

EYE CONTACT: Irritating to eyes. Rinse immediately with plenty water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

INHALATION: Irritating to respiratory system. Inhalations may cause coughing tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.

INGESTION: Ingestions may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITTING.

## 5 FIREFIGHTING MEASURES:

EXTINGUISHING: Carbon dioxide (CO2)  
FIRE HAZARDS: Burning produces irritating, toxic and abnoxious fumes.  
PROTECTIVE EQUIPMENT: Wear suitable respiratory equipment when necessary.

## 6 ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTIONS: Ensure adequate ventilation of the working area. Wear suitable protective equipment  
ENVIRONMENTAL : Do not allow product to enter drains. Prevent further spillage if save.  
CLEAN UP METHODS: Absorb with inert absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

## 4 HANDLING AND STORAGE:

HANDLING: Avoid contact with eyes and skin. Ensure adequate ventilation of working area. Adopt best manual handling considerations when handling, carrying and dispensing.  
STORAGE: Keep in a cool, dry well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION:**

## EXPOSURE LIMITS:

Sodium metabisulphite mg/m <sup>3</sup> :5	WEL 8 hr limit ppm:-	WEL 8-hr limit
(Disodium disulphite) mg/m <sup>3</sup> :-	WEL 15 min limit ppm:-	WEL 15 min limit

ENGINEERING MEASURES:	Ensure adequate ventilation of the working area
RESPIRATORY PROTECTION:	Wear: suitable respiratory equipment.
HAND PROTECTION:	Chemical resistant gloves (PVC)
EYE PROTECTION:	Approved safety goggles.
PROTECTIVE EQUIPMENT:	Wear chemical protective clothing.

**9 PHYSICAL AND CHEMICAL PROPERTIES:**

DESCRIPTION:	Liquid.
COLOUR:	Green.
ODOUR:	Characteristic
pH	4.0-5.0 (10% sol)
FLAMMABILITY LIMITS:	non flammable.
RELATIVE DENSITY:	1.5--1.54
WATER SOLUBILITY:	completely soluble

**10 STABILITY AND REACTIVITY**

STABILITY:	Stable under normal conditions
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**11 TOXICOLOGICAL INFORMATION**

Ammonium Nitrate ACUTE TOXICITY	Oral Rat LD50 = 2000 No data is available on this product.
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**12 ECOLOGICAL INFORMATION**

Ammonium Nitrate ECOTOXICITY	Fish LC50/96h = 100 g/l No data is available on this product.
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**13 DISPOSAL CONSIDERATIONS:**

GENERAL INFORMATION:	Dispose of in compliance with all local and national regulations.
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**14 TRANSPORT INFORMATION:**

FURTHER INFORMATION:	The product is not classified as a dangerous for carriage.
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**15 REGULATORY INFORMATION:**

LABELLING:	The product is classified in accordance with 67/548/EEC.
SYMBOLS:	Xi – Irritant



RISK PHRASES:	R36/37 – irritating to eyes and respiratory system.
SAFETY PHRASES:	S23 – Do not breathe gas/fumes/vapour/spray. S51 – Use only well-ventilated areas.

**16 OTHER INFORMATION**

TEXT OF RISK PHRASES IN SECTION 3.	R22 – Harmful if swallowed. R31 – Contact with acids liberates toxic gas. R36 – Irritating to eyes R37 – Irritating to respiratory system. R38 – Irritating to skin. R41 – Risk of serious damage to eyes. R 8 - Contact with combustible material may cause fire. R 9 – Explosive when mixed with combustible material.
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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 materials 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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