



Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 13-Dec-2011

Revision Number: 2

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance or preparation

MSDS Ref. No.: 9150.02.25
Product name: Plant Trust

Use of the Substance/Preparation

Recommended use: Fungicide

Company/Undertaking Identification

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2. HAZARDS IDENTIFICATION

Classification

Indication of danger:

The product is classified and labelled in accordance with Directive 2006/8/EC.
To avoid risks to man and the environment, comply with the instructions for use.

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Most important hazards

R -phrase(s)

R38 - Irritating to skin.
R41 - Risk of serious damage to eyes
R43 - May cause sensitization by skin contact.

2. HAZARDS IDENTIFICATION

S -phrase(s)

S25 - Avoid contact with eyes.
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S29 - Do not empty into drains.
 S36 - Wear suitable protective clothing.
 S37 - Wear suitable gloves.
 S39 - Wear eye/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Fosetyl-Aluminium	39148-24-8	10 - 25%	254-320-2	Xi;R41
Iron sulphate, FeSO ₄ +1H ₂ O	7720-78-7	< 1%	231-753-5	Xn;R22 R36/38
Manganese sulphate, MnSO ₄	7785-87-7	< 1%	232-08-99	N;R51/53 Xn;R48/20/22
Sodium molybdate, Na ₂ MoO ₄ +2H ₂ O	7631-95-0	< 1%	231-298-2	NE
Potassium nitrate, KNO ₃	7757-79-1	5 - 10%	231-818-8	O;R08
Calcium carbonate, CaCO ₃	471-34-1	1 - 5%	207-439-9	NE
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	10 - 25%	229-347-8	O;R08
Magnesium oxide, MgO	1309-48-4	< 1%	215-171-9	NE

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area

Unsuitable extinguishing media:

Not applicable

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapours.

Special protective equipment for firefighters:

Use personal protective equipment. Self-contained breathing apparatus and suitable protective clothing.

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Avoid contact with skin and eyes. Use personal protective equipment.

Environmental precautions:

Do not contaminate water. Prevent product from entering drains.

Methods for cleaning up:

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE**Handling:****Technical measures/precautions:**

Read and follow label instructions.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Wash hands and exposed skin after use / handling. When using, do not eat, drink or smoke.

Storage:**Technical measures/storage conditions:**

Protect from extreme temperatures. Store in original container. Keep tightly closed. Keep away from food, drink and animal feeding stuffs.

Incompatible products:

No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering measures to reduce exposure:**

Ensure adequate ventilation.

Occupational exposure controls**Personal protective equipment****Respiratory protection:**

No information available

Hand protection:

Wear suitable gloves.

Eye/face protection

Wear eye/face protection.

Skin and body protection:

Wear suitable protective clothing.

Hygiene measures

When using, do not eat, drink or smoke. Wash hands and exposed skin after use / handling. Remove and wash contaminated clothing before re-use.

Exposure limit values*Iron sulphate, FeSO₄+1H₂O*

Belgium - 8 Hr VLE	1 mg/m ³
Finland - Occupational Exposure Limits - 8 hour	1 mg/m ³
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	0.01 mg/m ³
Portugal - TWAs	1 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	1 mg/m ³ VLA-ED
UK EH40 WEL:	LTEL (8 hr TWA) 1 mg/m ³ STEL (15 min) 2mg/m ³

Manganese sulphate, MnSO₄

Belgium - 8 Hr VLE	0.2 mg/m ³
Czech Republic OEL	= 1 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	0.5 mg/m ³
Germany TRGS900:	0.5 mg/m ³ TWA
Germany (DFG) - MAK	0.5 mg/m ³ MAK
Netherlands - OEL - MACs:	1 mg/m ³
Norway - 8 h:	2.5 mg/m ³
Portugal - TWAs	0.2 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	0.2 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	0.1 mg/m ³ LLV 0.2 mg/m ³ LLV
UK EH40 WEL:	5 mg/m ³

Sodium molybdate, Na₂MoO₄+2H₂O

Belgium - 8 Hr VLE	5 mg/m ³ TWA
Czech Republic OEL	5 mg/m ³ TWA
Finland - Occupational Exposure Limits - 8 hour	6 mg/m ³
France - Valeurs Limites d'exposition (VLE)	5 mg/m ³
France INRS (VME)	5 mg/m ³ VME
Norway - 8 h:	5 mg/m ³ TWA
Portugal - TWAs	0.5 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	5 mg/m ³ VLA-ED
Sweden - OEL - 8 Hour	10 mg/m ³ LLV 5 mg/m ³ LLV

Calcium carbonate, CaCO₃

Belgium - 8 Hr VLE	10 mg/m ³ TWA
Czech Republic OEL	= 10.0 mg/m ³ TWA
France INRS (VME)	10 mg/m ³ VME
Portugal - TWAs	10 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	10 mg/m ³ VLA-ED
UK EH40 WEL:	10 mg/m ³ TWA 4 mg/m ³ TWA

Ammonium nitrate, NH₄NO₃

Czech Republic OEL	= 10.0 mg/m ³ TWA
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Magnesium oxide, MgO

Austria - MAKs	6 mg/m ³
Belgium - 8 Hr VLE	10 mg/m ³
Czech Republic OEL	5 mg/m ³ TWA
France - Valeurs Limites d'exposition (VLE)	10 mg/m ³
France INRS (VME)	10 mg/m ³ VME
Germany (DFG) - MAK	6 mg/m ³
Netherlands - OEL - MACs:	10 mg/m ³

Norway - 8 h:	10 mg/m ³
Portugal - TWAs	10 mg/m ³ TWA
Spain - Valores Limite Ambientales - VLE	10 mg/m ³ VLA-ED
UK EH40 WEL:	10 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:	Solid
Appearance:	Granular
Color:	Gray, Brown
Odor:	No information available

Important Health Safety and Environmental Information

Solubility:	Moderately soluble
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Other information

Bulk density:	800 - 1100kg/m ³
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10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Protect from extremes of temperature. Keep away from heat and ignition sources.
Materials to avoid:	Combustible material.
Hazardous decomposition products:	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Component information

Fosetyl-Aluminium

LD50/oral/rat =	5000 mg/kg
LD50/dermal/rabbit =	> 2000 mg/kg
LC50/inhalation/4h/rat =	1730 mg/m ³

Iron sulphate, FeSO₄+1H₂O

LD50/oral/rat =	1389 mg/kg
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Manganese sulphate, MnSO₄

LD50/oral/rat =	9 g/kg
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Sodium molybdate, Na₂MoO₄+2H₂O

LD50/oral/rat =	4000 mg/kg
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*Potassium nitrate, KNO₃***LD50/oral/rat =** 3750mg/kg*Ammonium nitrate, NH₄NO₃***LD50/oral/rat =** 2410 mg/kg**Product information****Local effects****Skin effects:**

Irritating to skin. May cause sensitization by skin contact.

Eye effects:

Risk of serious damage to eyes.

Inhalation:

May cause sensitization by inhalation

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

12. ECOLOGICAL INFORMATION**Product information****Component information***Fosetyl-Aluminium***Ecotoxicity effects**

LC50/96h/rainbow trout =430 mg/l

*Iron sulphate, FeSO₄+1H₂O***Ecotoxicity effects**EC50/48h/daphnia = >100mg/l
LC50/96h/rainbow trout = >72.5mg/l (6d)
EC50/72h/algae = 22mg/l*Manganese sulphate, MnSO₄***Ecotoxicity effects**

EC50/48h/daphnia => 100 mg/l

*Sodium molybdate, Na₂MoO₄+2H₂O***Ecotoxicity effects**

LC50/96h/rainbow trout => 2800 mg/l

*Ammonium nitrate, NH₄NO₃***Ecotoxicity effects**EC50/48h/daphnia =100 mg/l
LC50/96h/rainbow trout =10 mg/l
EC50/72h/algae =74000 µg/l**13. DISPOSAL CONSIDERATIONS**

13. DISPOSAL CONSIDERATIONS

- Waste Disposal Methods:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not empty into drains. This material and its container must be disposed of in a safe way.
- Contaminated packaging:** Do not re-use container for any other purpose and dispose of safely. Dispose of in accordance with local regulations and national regulations.

14. TRANSPORT INFORMATION

Product information

Physical State: Solid

ADR/RID

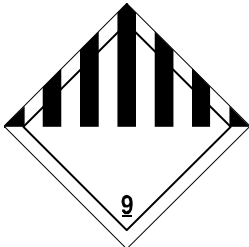
UN-No: Not classified for transport

IATA

UN-No: 2071
Proper shipping name: AMMONIUM NITRATE FERTILIZERS
Hazard Class: 9
Packing group: III

IMO / IMDG

UN-No: 2071
Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER
Hazard Class: 9
Packing group: III
EmS: F-H / S-Q



15. REGULATORY INFORMATION

Indication of danger:

The product is classified and labelled in accordance with Directive 2006/8/EC.
 To avoid risks to man and the environment, comply with the instructions for use.

In accordance with local and national regulations

Registration number UK/Eire

MAPP 15208

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R36/38 - Irritating to eyes and skin.

R48/20/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision: *** Indicates changes since the last revision. This version replaces all previous versions

Prepared by: Regulatory Affairs Department.

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End of Safety Data Sheet