



# Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 31-Jul-2009\*\*\*

Revision Number: 1\*\*\*

Revision date: 31-Jul-2009\*\*\*

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

### Identification of the substance or preparation

MSDS Ref. No.: SCSDS431  
Product name: Renovator Pro

### Use of the Substance/Preparation

Recommended use: For use only as a horticultural turf treatment.

**Company/Undertaking Identification**  
• Scotts UK Professional, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ  
United Kingdom

**Emergency telephone number:** • ++44 (0) 1865 407333 (24h)

**Email** INFO-MSDS@Scotts.com

## 2. HAZARDS IDENTIFICATION

### Classification

The product has been classified according to the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3].

### Most important hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Iron sulphate, FeSO <sub>4</sub> +1H <sub>2</sub> O***	7720-78-7	10 - 25%	231-753-5	Xn:R22 R36/38***
MCPA (2-ethylhexyl esters of)***	607-052-009	< 1%	607-051-00-3	Xn: R20/21/22
Mecoprop-P (2-ethylhexyl esters of)***	607-423-005	< 1%	607-049-00-2	Xn: R22, R43 N:R50-53
Sand	14808-60-7	10 - 25%	238-878-4	NE

Revision date: 31-Jul-2009\*\*\*

NE = Non-Established

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

#### 4. FIRST AID MEASURES

<b>General advice:</b>	Contains mecoprop-P (iso-octyl ester). May produce an allergic reaction.
<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.
<b>Inhalation:</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Skin contact:</b>	If skin irritation persists, call a physician.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**  
Water spray mist or foam. Carbon dioxide (CO2). Powder\*\*\*

**Unsuitable extinguishing media:**  
High volume water jet

**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:**  
Use personal protective equipment.

**Environmental precautions:**  
Do not contaminate water. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Methods for cleaning up:**  
Sweep up and shovel into suitable containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling:**  
**Technical measures/precautions:** Avoid dust formation. Ensure adequate ventilation.

**Safe handling advice:**

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

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

Store in original container. Keep tightly closed in a dry and cool place.

**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:**

**Wear respirator with dust filter\*\*\***

**Hand protection:**

Protective gloves. Nitrile rubber.

**Eye/face protection**

Face-shield.

**Skin and body protection:**

**Wear suitable protective clothing\*\*\***

**Hygiene measures**

Wash hands before stopping and immediately after handling. When using, do not eat, drink or smoke.

**Exposure limit values***Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

Belgium - 8 Hr VLE

1 mg/m<sup>3</sup>

Finland - Occupational Exposure Limits - 8 hour

1 mg/m<sup>3</sup>

Netherlands - OEL - MACs:

1 mg/m<sup>3</sup>

Norway - 8 h:

0.01 mg/m<sup>3</sup>

Portugal - TWAs

**1 mg/m<sup>3</sup> TWA\*\*\***

Spain - Valores Limite Ambientales - VLE

**1 mg/m<sup>3</sup> VLA-ED\*\*\***

UK EH40 WEL:

LTEL (8 hr TWA) 1 mg/m<sup>3</sup>

STEL (15 min) 2mg/m<sup>3</sup>

*MCPA (2-ethylhexyl esters of)*

UK EH40 WEL:

LTEL (8hr TWA) 14mg/m<sup>3</sup> (supplier data)

STEL (15 min) 28mg/m<sup>3</sup> (supplier data)

*Mecoprop-P (2-ethylhexyl esters of)*

UK EH40 WEL:

LTEL (8 hr TWA) 15mg/m<sup>3</sup> (supplier data)

STEL (15 Min) 30mg/m<sup>3</sup> (supplier data)

*Sand*

Belgium - 8 Hr VLE

0.1 mg/m<sup>3</sup> TWA\*\*\*

Finland - Occupational Exposure Limits - 8 hour

0.5 mg/m<sup>3</sup> TWA\*\*\*

France INRS (VME)

0.1 mg/m<sup>3</sup> VME\*\*\*

Netherlands - OEL - MACs:

0.075 mg/m<sup>3</sup> TWA\*\*\*

Norway - 8 h:

0.1 mg/m<sup>3</sup> TWA

0.3 mg/m<sup>3</sup> TWA\*\*\*

Portugal - TWAs

0.025 mg/m<sup>3</sup> TWA\*\*\*

Spain - Valores Limite Ambientales - VLE

0.1 mg/m<sup>3</sup> VLA-ED\*\*\*

Sweden - OEL - 8 Hour

0.1 mg/m<sup>3</sup> LLV\*\*\*

UK EH40 WEL:

LTEL (8 Hr) 6 mg/m<sup>3</sup> (total inhalable dust)  
STEL (15 min) 2.4 mg/m<sup>3</sup> (total respirable dust)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

**Physical State:** Solid\*\*\*  
**Color:** Beige  
**Odor:** Slight

### Important Health Safety and Environmental Information

**Solubility:** Partly soluble  
**Flammability (solid, gas):** Non-flammable

### Other information

**pH:** 3 - 5 (1 % solution in water.)  
**Specific gravity:** 750g/l

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.  
**Conditions to avoid:** No information available  
**Materials to avoid:** Bases.  
**Hazardous decomposition products:** Ammonia.

## 11. TOXICOLOGICAL INFORMATION

### Component information

*Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

**LD<sub>50</sub>/oral/rat =** 1389 mg/kg

*MCPA (2-ethylhexyl esters of)*

**LD<sub>50</sub>/oral/rat =** 900 - 1160mg/kg

**LD<sub>50</sub>/dermal/rat =** >4000mg/kg

**LC<sub>50</sub>/inhalation/4h/rat =** >6.36mg/l

*Mecoprop-P (2-ethylhexyl esters of)*

**LD<sub>50</sub>/oral/rat =** 1050mg/kg

**LD<sub>50</sub>/dermal/rat =** >4000mg/kg

**LC<sub>50</sub>/inhalation/4h/rat =** >5.6mg/l

*Sand*

LD50/oral/rat = N.A.

**Product information****Local effects**

**Skin effects:** May cause skin irritation in susceptible persons

**Eye effects:** No information available.

**Inhalation:** No information available.

**Ingestion:** No information available.

**12. ECOLOGICAL INFORMATION****Product information**

**Aquatic toxicity:** Harmful to aquatic organisms  
May cause long-term adverse effects in the aquatic environment

**Component information***Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

**Ecotoxicity effects** EC50/48h/daphnia = >100mg/l  
LC50/96h/rainbow trout = >72.5mg/l (6d)  
EC50/72h/algae = 22mg/l

*MCPA (2-ethylhexyl esters of)*

**Ecotoxicity effects** LC50/96h/rainbow trout =232mg/l

*Mecoprop-P (2-ethylhexyl esters of)*

**Ecotoxicity effects** LC50/96h/rainbow trout =150 - 220mg/l

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not empty into drains. Dispose of in accordance with local regulations and national regulations.

**Contaminated packaging:** Do not re-use container for any other purpose and dispose of safely \*\*\*

**14. TRANSPORT INFORMATION**

**14. TRANSPORT INFORMATION****Product information****Physical State:** Solid\*\*\***ADR/RID****UN-No:** Not classified for transport**IATA****UN-No:** Not classified for transport**IMO / IMDG****UN-No:** Not classified for transport**15. REGULATORY INFORMATION****Indication of danger:**

The product has been classified according to the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3].

To avoid risks to man and the environment, comply with the instructions for use.

**Labelling**

Contains mecoprop-P (iso-octyl ester). May produce an allergic reaction

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Wash hands and exposed skin after use / handling. Keep in original container, tightly closed in a safe place. Do not contaminate ponds, waterways or ditches with chemical or used container.

**Registration number UK/Eire**

MAPP: 12204 PCS No: 02512

**16. OTHER INFORMATION****Text of R Phrases mentioned in Section 3**

R22 - Harmful if swallowed.

R43 - May cause sensitization by skin contact.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36/38 - Irritating to eyes and skin.

R50/53 - Very 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.

This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product

**End of Safety Data Sheet**