



Turf Defence

Material Safety Data Sheet



Revision Date: 13/10/2017

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

1.1 Product identifier

Product Name: Turf Defence

1.2 Relevant identified uses of the substance or mixture and uses advised against

Liquid fertiliser for use on turf, grass and lawns.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Consolidate Turf
Winterview Farm
Parr Lane
Ecclestone
Chorley
Lancashire
PR7 5RP
United Kingdom
Telephone: +44 (0) 1772 454724
Email: consolidateturf@gmail.com

1.4 Emergency telephone number:

0870 243 2241 or +44 (0)20 7771 5310 – United Kingdom Poisons Information Centre

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

<u>Hazard Class And Category Code</u>	<u>Hazard Statement Code</u>	<u>Hazard Statement</u>
Skin Irritation 2	H315	Causes skin irritation.
Acute Toxicity 1	H302	Harmful if swallowed.
Aquatic Acute 1	H400	Very toxic to aquatic life.

2.2 Label Elements

Hazard pictograms



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Signal word
Danger

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H400 Very toxic to aquatic life.

Precautionary statements

P264 Wash possible exposed body surfaces thoroughly after handling this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing and wash before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P102 Keep out of reach of children.
P402 + P404 Store in a dry place. Store in a closed container.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredient(s):

<u>Description</u>	<u>CAS No.</u>	<u>EC Number</u>	<u>Concentration in mixture</u>
Manganese Oxide	1344-43-0	215-695-8	<5% w/w
Zinc Sulphate	7733-02-0	231-793-3	<5% w/w
Copper Sulphate	7758-98-7	231-847-6	<5% w/w

4. FIRST AID MEASURES

4.1 Description of first aid measures

After skin contact: Immediately rinse with water.
After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: Induce vomiting and call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.



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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

Water haze
Foam
Carbon dioxide
Fire-extinguishing powder

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective clothing, glove and eye/face protection.

6.2 Environmental precautions

Prevent further spillage if safe. Do not allow product to enter sewers / surface or ground water.

6.3 Methods and material for containment and cleaning up

Use mechanical handling equipment.

For large spills: Collect and reuse if possible.

Otherwise: Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4 Reference to other sections

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Keep container tightly closed. Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

Hygiene Measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands after use. Remove all contaminated clothing immediately.



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7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep only in the original container. Keep away from heat and in a well ventilated place. Store in a cool dry place (store above 5degrees C.). Keep away from food, drink and animal food stuffs. Keep out of reach of children and babies.

Suitable packaging: Plastic UN approved containers.

7.3 Specific end uses

No Information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Other occupational exposure limit values: No information available.

8.2 Exposure controls

Appropriate engineering controls: Refer to protective measures listed in sections 7 and 8.

Individual protection measures:	Respiratory protection:	In case of brief exposure or low pollution, use breathing filter apparatus. In case of intensive or pro-longed exposure use self-contained breathing apparatus.
	Hand protection:	Protective gloves must be worn. The following materials are suitable; PVC or Nitrile rubber.
	Eye protection:	Safety glasses or face shield giving complete protection to the eyes.
	Skin / body protection:	Impervious clothing / chemical resistant apron.
	Foot protection:	Impervious safety boots.
Environmental exposure controls:	General advice:	Do not flush into surface water or sewer.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Black
Odour:	Slight odour
Odour Threshold:	No information available.
pH:	0.25 - 0.55
Melting point / Freezing point:	No information available.
Boiling point / Boiling range:	No information available.
Flash point:	No information available.
Flammability:	No information available.
Upper explosive limits:	No information available.
Lower explosive limits:	No information available.



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Vapour pressure:	No information available.
Vapour density:	No information available.
Relative density:	1.225 – 1.275
Water solubility:	Soluble
Partition coefficient n-octanol / water:	No information available.
Ignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Explosivity:	No information available.
Oxidising properties:	No information available.

9.2 Other information

No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Metals, Oxidising agents.

10.6 Hazardous decomposition products

Irritant gases / vapours, Toxic gases.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD50: > 500mg/kg (rat) Harmful if swallowed.
Inhalation:	No information available.



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Dermal: No information available.
Irritation:
Skin: No information available.
Eyes: No information available.
Sensitisation: No known sensitizing effects.

CMR Effects:

Carcinogenicity: No information available.
Mutagenicity: No information available.
Teratogenicity: No information available.
Reproductive toxicity: No information available.

Specific target organ toxicity:

Single exposure: No information available.
Repeated exposure: No information available.
Aspiration toxicity: No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity: Toxic to aquatic life.

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

Additional ecological information

General notes: Do not allow product to enter surface water or sewer.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects



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No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Disposal together with normal waste is not allowed. Special disposal is required in accordance to local regulations.

Contaminated packaging: Empty contaminated containers thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

14.1 UN number

UN 3082

14.2 UN proper shipping name

ADR: Environmentally Hazardous Substance, Liquid, N.O.S. (Manganese Oxide, Zinc and Copper Sulphate)

RID: Environmentally Hazardous Substance, Liquid, N.O.S. (Manganese Oxide, Zinc and Copper Sulphate)

IMDG: Environmentally Hazardous Substance, Liquid, N.O.S. (Manganese Oxide, Zinc and Copper Sulphate)

14.3 Transport hazard class (es)

ADR class 9

(Labels; Classification Code; 9; C1; 80; (E)
Hazard identification No;
Tunnel restriction code)

RID class 9

(Labels; Classification Code; 9; C1; 80;
Hazard identification No)

IMDG class 9

(Labels; EmS) 9; F-A, S-B

14.4 Packing group

ADR: III

RID: III

IMDG: III

14.5 Environmental hazards



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Labelling according to 5.2.1.8 ADR: Yes
Labelling according to 5.2.1.8 RID: Yes
Labelling according to 5.2.1.6.3 IMDG: Yes

14.6 Special precautions for user

Do not allow product to enter sewers / surface or ground water

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

IMDG: EMS-NUMBER: F-A, S-B MARINE POLLUTANT: Yes

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labeling according to Regulation (EC) No 1272/2008 GHS Label elements

15.2 Chemical safety assessment

No information available.

16. OTHER INFORMATION

Further Information: The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage, transportation, disposal and handling of the material designated and should not be considered a warranty or quality specification. 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.