

Product Lawn Buster
 Revision date 1st April 2020
 Revision 1



Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name Lawn Buster
Synonyms, Trade names No information available.

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

Identified uses Horticultural fertiliser.
Uses advised against No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier Emerald Clover Ltd.
 Drumduffy
 Drumkeeran
 Co. Leitrim
 N41 T998
 Ireland
 Tel: 071 96 48008
 info@emeraldclover.ie

Contact person

1.4 Emergency telephone number

Emergency telephone Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9. Tel 01 8092566

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)
 Physical and chemical hazards Not classified
 Human health Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Irrit.2A - H319
 Environment Not classified

2.2 Label elements

Contains iron (II) sulfate

Label in accordance with (EC) no. 1272/2008



Signal word Warning

Hazard statements H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.

Precautionary statements **Prevention**
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.
Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
iron (II) sulfate	CAS-No.: 7720-78-7 EC No.: 231-753-5	Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Irrit.2A - H319	60-100%
citric acid	CAS-No.: 77-92-9 EC No.: 201-069-1		0-1%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1 Description of first aid measures

General information

General first aid, rest, warmth and fresh air.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion

Immediately rinse mouth and drink plenty of water. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. DO NOT induce vomiting.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if irritation persists. Continue to rinse for at least 15 minutes.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. If irritation persists, seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

May cause respiratory tract irritation.

Ingestion

Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician

Treat Symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

No unsuitable extinguishing media identified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

When heated, toxic and corrosive vapours/gases may be formed

Unusual fire & explosion hazards

No unusual fire or explosion hazards noted.

Specific hazards No specific hazards are identified for the product.

5.3 Advice for firefighters

Special fire fighting procedures Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Do not scatter spilled material with more water than needed to fight the fire

Protective equipment for firefighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see section 8.
For emergency responders Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Spill clean up methods Place into chemical waste container for disposal according to local, state or federal regulations. Flush spill area large amounts of with water. When dealing with a spillage, please consult the section relating to suitable protective measures.

6.4 Reference to other sections

Reference to other sections See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling Provide good ventilation. Avoid prolonged or repeated contact. Wash thoroughly after handling. Eliminate all sources of ignition. Use proper personal protection when handling (refer to Section 8).

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food, drink and animal feeding stuffs. Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage class Chemical storage

7.3 Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.
Usage description Use only according to directions.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Ingredient comments No exposure limits noted for ingredient(s).

8.2 Exposure Controls

Protective equipment



Engineering measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory equipment	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit
Hand protection	Wear chemical protective gloves that are in accordance with EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Eye protection	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Process conditions	Provide eyewash station.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Blue.
Odour	No odour information available.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	~ 5
pH-Value, Diluted solution	No information available.
Melting point	134 C
Initial boiling point and boiling range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability state	No information available.
Flammability limit - lower(%)	No information available.
Flammability limit - upper(%)	No information available.
Vapour pressure	No information available.
Vapour density (air=1)	No information available.
Relative density	No information available.
Bulk density	1.0-1.12 g/ml
Solubility	Solubility in/miscibility with water at 20C: 624g/L
Decomposition temperature	No information available.
Partition coefficient; n-	No information available.

Octanol/Water

Auto ignition temperature (°C)	No information available.
Viscosity	No information available.
Explosive properties	Not classified as explosive.
Oxidising properties	No information available.

9.2 Other information

Molecular weight	No information available.
Volatile organic compound	No information available.

Section 10: Stability and reactivity**10.1 Reactivity**

Reactivity	No specific reactivity hazards associated with this product.
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10.2 Chemical stability

Stability	May give off ammonia, isocyanic acid, nitrogen oxides, sulphur oxides when heated above 130°C.
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10.3 Possibility of hazardous reactions

Hazardous reactions	Avoid mixing with strong oxidising agents, strong acids, strong bases, hypochlorites, aldehydes, allyl chloride.
Hazardous polymerisation	Unknown.
Polymerisation description	No information available.

10.4 Conditions to Avoid

Conditions to avoid	Mildly corrosive if left in contact with ferrous metals.
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10.5 Incompatible materials

Materials to avoid	None noted.
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10.6 Hazardous decomposition products

Hazardous decomposition products	None under normal conditions.
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Section 11: Toxicological information**11.1 Information on toxicological effects**

Toxicological information	No toxicological information for the overall finished product.
Acute toxicity (Oral LD50)	No information available.
Acute toxicity (Dermal LD50)	No information available.
Acute toxicity (Inhalation LD50)	No information available.
Serious eye damage/irritation	Irritating to eyes.
Skin corrosion/irritation	No information available.
Respiratory sensitisation	No information available.
Skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

Specific target organ toxicity - Single exposure:

STOT - Single exposure No information available.

Specific target organ toxicity - Repeated exposure:

STOT - Repeated exposure No information available.

Inhalation

May cause respiratory tract irritation.

Ingestion

Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Waste management

Dispose of in accordance with local and national regulations.

Routes of entry

No information available.

Target organs

Eyes, Skin, Inhalation and Ingestion.

Aspiration hazards:

No information available.

Reproductive toxicity:

No information available.

Section 12: Ecological information

12.1 Toxicity**Acute toxicity - Fish** No information available.**Acute toxicity - Aquatic invertebrates** No information available.**Acute toxicity - Aquatic plants** No information available.**Acute toxicity - Microorganisms** No information available.**Chronic toxicity - Fish** No information available.**Chronic toxicity - Aquatic** No information available.**invertebrates****Chronic toxicity - Aquatic plants** No information available.**Chronic toxicity - Microorganisms** No information available.**Ecotoxicity**

No negative effects on the aquatic environment are known.

Eco toxicological information

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

12.2 Persistence and degradability**Degradability**

The product is readily biodegradable.

Biological oxygen demand

No information available.

Chemical oxygen demand

No information available.

12.3 Bioaccumulative potential**Bioaccumulative potential**

Does not bioaccumulate.

Bioaccumulation factor

No information available.

Partition coefficient; n-**Octanol/Water**

No information available.

12.4 Mobility in soil**Mobility**

Soluble in water.

12.5 Results of PBT and vPvB assessment**Results of PBT and vPvB assessment** No information available.**12.6 Other adverse effects****Other adverse effects**

None known.

Section 13: Disposal considerations

Waste management

Dispose of in accordance with local and national regulations.

13.1 Waste treatment methods

Disposal methods	Dispose of in accordance with national and local regulations for special waste via an appropriately licensed waste contractor. Do not discharge to drains. Empty containers and clean out appropriately before reuse or disposal. Packaging that cannot be cleaned should be disposed of according to national and local regulations for special waste via an appropriately licensed waste contractor.
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Section 14: Transport information**14.1 UN number**

UN no. (ADR)	Not applicable.
UN no. (IMDG)	Not applicable.
UN no. (IATA)	Not applicable.

14.2 UN proper shipping name

ADR proper shipping name	Not applicable.
IMDG proper shipping name	Not applicable.
IATA proper shipping name	Not applicable.

14.3 Transport hazard class(es)

ADR class	Not applicable.
IMDG class	Not applicable.
IATA class	Not applicable.

Transport labels	Not applicable
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14.4 Packing group

ADR/RID/ADN packing group	Not applicable.
IMDG packing group	Not applicable.
IATA packing group	Not applicable.

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	Not applicable.
Emergency action code	Not applicable.
Hazard no. (ADR)	Not applicable.
Tunnel restriction code	Not applicable.

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).
Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010
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Revision comments	This is a first issue.
Revision date	1 st April 2020
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.