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SAFETY DATA SHEET

Issue Date: 27-Jun-19
Revision Date: 27-Jun-19
Revision Number: 1

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

1.1 Name of Product

Proctors Lawn Feed, Weed & Moss Killer 2000

1.2 Use of the Substance/Preparation

Amateur use as herbicide weed killer and moss killer.

1.3 Manufacturer/Distributor

Proctors
Phoenix House
51 Queen Square
Bristol
BS1 4LJ
Tel: 0117 311 1217
Email: info@proctorsnpk.com

1.4 Emergency Contact

Tel: 0117 311 1217 (Office Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification

Classification according to Directive EC 1272/2008 Classification, Labelling and Packaging.

Physical hazards

Not Classified

Health hazards

Eye Irrit. 2 - H319

Environmental hazards

Aquatic Chronic 3 – H412



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2.2 Label elements

Pictogram



Signal Word

Warning

Hazard statements

EUH208 Contains (2,4-dichlorophenoxy) acetic acid, dimethylamine salt. May produce an allergic reaction.

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water

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

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

P391 Collect spillage.

P501 Dispose of contents/container in accordance with national regulations.

Supplementary label information

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Supplementary precautionary statements

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P330 Rinse mouth.

2.3 Other hazards

Mixture not classed as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Herbicide weed killer and moss killer containing 10% nitrogen, 2% phosphorus pentoxide, 1.7% potassium oxide, 7% iron, 2.86g/Kg 2,4D, 0.57g/Kg Dicamba, 2.86g/Kg Mecoprop-P



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Ingredient SSP Single Superphosphate	CAS/EINECS 8011-76-5 232-379-5	Classification Eye irr 2 H319	% w/w 5-10%
Ingredient Ferrous Sulphate Heptahydrate	CAS/EINECS 7782-63-0	Classification Acute tox 4 H302 Skin irr 2 H315 Eye irr 2 H319	% w/w 10-30%
Ingredient (2,4-dichlorophenoxy) acetic acid, dimethylamine salt	CAS/EINECS 2008-39-1	Classification Acute tox 4 H302 Eye dam 1 H318 Skin sens 1 H317 Aq chronic 3 H412	% w/w <1%
Ingredient Mecoprop-P[1] and its salts	CAS/EINECS 16484-77-8	Classification Acute tox 4 H302 Eye dam 1 H318 Aq chronic 2 H411	% w/w <1%

The full text for all Hazard Statements are displayed in Section 16

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact – Immediately rinse with clean water for 10 minutes. Seek medical attention if symptoms persist or develop.

Skin contact – Rinse immediately with plenty of water. Remove contaminated clothing. Wash all contaminated clothing before re-use. Get medical attention if symptoms are severe or persist after washing.

Ingestion – Do not induce vomiting unless under the direction of medical personnel. Get medical attention immediately. Rinse out mouth thoroughly with water and seek medical advice. Give plenty of water to drink.

Inhalation – Remove to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.

4.2 Most important symptoms and effects, both acute and delayed

Eye Contact: Causes serious eye irritation. Prolonged or repeated exposure may cause severe irritation.

Skin Contact: Skin irritation should not occur when used as recommended. The product is considered to be a low hazard under normal conditions of use.

Ingestion: Product is considered to present little hazard by oral exposure.

Inhalation: Dust in high concentrations may irritate the respiratory system.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.



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5. FIRE FIGHTING MEASURES

Non flammable

5.1 Extinguishing Media

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable. As such extinguishing media appropriate for surrounding materials should be chosen.

5.2 Special hazards arising from substance or mixture

Thermal decomposition or combustion products may include the following substances:
Irritating gases or vapours.

5.3 Advice for firefighters

Protective actions during firefighting

Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Contain and collect extinguishing water. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Avoid inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.

6.2 Environmental precautions

Harmful to aquatic life with long lasting effects. The product is slowly degradable. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Avoid discharge into drains and the aquatic environment. Use appropriate containment to avoid environmental contamination. Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.



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6.3 Methods and material for containment and cleaning up:

Take care as floors and other surfaces may become slippery. Avoid generation and spreading of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations. Do not empty into drains. Collect and dispose of spillage as indicated in Section 13.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Usage precautions

Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2 Conditions for Safe Storage

Store in a dry place. Keep cool. Keep only in the original container. Keep container in a well-ventilated place. Keep out of the reach of children. Keep away from combustible materials. Keep away from heat. Store away from incompatible materials (see Section 10).

7.3 Specific end use

Amateur use as herbicide weed killer and moss killer.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Sand (Silica Dust respirable), Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL 0.1 mg/m³

Potassium Sulphate SOP, Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL 10 mg/m³ inhalable dust
Long-term Exposure Limit (8 hour TWA) WEL 4 mg/m³ respirable dust

Worker

Systemic long-term effects dermal: 21.3 mg/kg/day
Systemic long-term effects inhalative: 37.6 mg/m³



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General Population

Systemic long-term effects dermal:	12.8	mg/kg/day
Systemic long-term effects inhalative:	11.1	mg/m ³
Systemic long-term effects oral:	12.8	mg/kg/day

Potassium Sulphate SOP (CAS 7778-80-5)

Fresh water	0.68	mg/L
Marine water	0.068	mg/m ³
Intermittent release	6.8	mg/L
STP	10	mg/L

Ferrous Sulphate Heptahydrate (CAS 7782-63-0), Desired No Effect Level (DNEL)

Worker

Acute systemic effects dermal:	2.8	mg/kg/day
Acute systemic effects inhalative:	9.9	mg/m ³
Systemic long-term effects dermal:	2.8	mg/kg/day
Systemic long-term effects inhalative:	9.9	mg/m ³

General Population

Acute systemic effects oral:	1.4	mg/kg/day
Acute systemic effects dermal:	1.4	mg/kg/day
Acute systemic effects inhalative:	2.5	mg/m ³
Systemic long-term effects oral:	1.4	mg/kg/day
Systemic long-term effects dermal:	1.4	mg/kg/day
Systemic long-term effects inhalative:	2.5	mg/m ³

Ferrous Sulphate Heptahydrate (CAS 7782-63-0), Predicted No Effect Concentration (PNEC)

The PNECs given in this section were derived based on the concentration which would cause a 10% increase above typical natural background levels of iron in soil and sediment. Thus the respective PNEC is equal to 110% of the typical natural background level of iron.

Water

Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests. Therefore no PNEC was derived.

Sewage Treatment Plants, Sediment and Soil

STP	500	mg/L
Sediment (Fresh Water)	49.5	g/kg
Sediment (Marine Water)	49.5	g/kg
Soil	55.5	g/kg



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Oral (food chain)

Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests, therefore no PNEC was derived.

SSP Single Superphosphate (CAS 8011-76-5), Desired No Effect Level (DNEL)

Worker

Systemic long-term effects dermal:	17.4 mg/kg/day
Systemic long-term effects inhalative:	3.1 mg/m ³

General Population

Systemic long-term effects dermal:	10.4 mg/kg/day
Systemic long-term effects inhalative:	0.9 mg/m ³
Systemic long-term effects oral:	2.1 mg/kg/day

SSP Single Superphosphate (CAS 8011-76-5), Predicted No Effect Concentration (PNEC)

Fresh water	1.7 mg/L
Marine water	0.17 mg/m ³
Intermittent release	17 mg/L
STP	10 mg/L

8.2 Exposure Controls:

Protective equipment



Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374.

Eye/face protection

Wear eye protection. Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Engineering controls

All handling should only take place in well-ventilated areas.

Clothing

Wear appropriate clothing to prevent repeated or prolonged skin contact.



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Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Respiratory protection

No specific recommendations

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	Beige, dark brown or black granules
Odour	Mild
pH	ca. 3.0 (1.0% dilution in water)
Boiling point	n/a
Melting point	n/a
Flash point	n/a
Flammability	Product is not flammable.
Autoflammability	n/a
Explosivity	n/a
Oxidising properties	n/a
Vapour Pressure	n/a
Relative density	n/a
Bulk density	Pour density: 0.9g/ml, tap density: 0.94g/ml
Solubility	Partially soluble in water.
Decomposition temperature	n/a

9.2 Other Information:

None

10. STABILITY & REACTIVITY

10.1 Reactivity

No test data specifically related to reactivity available for this product or its ingredients.

10.2 Stability

Stable when stored in a dry place.

10.3 Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4 Conditions to Avoid

Extremes of temperature



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10.5 Incompatible materials

Materials to avoid

Water, moisture

10.6 Hazardous Decomposition Products

Decomposes at high temperatures producing toxic nitrogen and sulphur oxide fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity – oral

Iron Sulphate: EFSA peer review endpoint (EFSA journal 2012; 10 (1): 2521)

Oral LD50 1,750 mg/kg (rat)

Dicamba: EFSA peer review endpoint (EFSA journal 2011; 9 (1): 1965)

Oral LD50 1,581 mg/kg (rat)

Mecoprop-P: Supplier MSDS

Oral LD50 775 mg/kg (rat)

2,4-D Acid: EFSA peer review endpoint (EFSA journal 2014; 12 (9): 3812)

Oral LD50 >300 & <2,000 mg/kg (rat)

ATE oral (mg/kg)

4,173.0

Acute toxicity – dermal

Notes (dermal LD50)

No specific test data are available.

Acute toxicity – inhalation

Notes (inhalation LC50)

No specific test data are available.

Serious eye damage/irritation

Causes serious eye irritation. Classified as an eye irritant category 2 as confirmed via study data (OECD438).

Respiratory sensitisation

No specific test data are available.



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Skin corrosion/irritation

Based on available data the classification criteria are not met. Not classified for skin irritant as confirmed via study data (OECD439)

Skin sensitisation

Not classified for skin sensitisation category 1. Due to the content of 2,4D and its classification as a skin sensitiser, EUH208 is applied.

Germ cell mutagenicity

Genotoxicity - in vitro
This substance has no evidence of mutagenic properties.

Carcinogenicity

No specific test data are available. There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure
Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure
Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Eye contact

Causes serious eye irritation.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects. Classified as Harmful to aquatic life with lasting effects as part of the products evaluation under regulation 1107/2009.

12.2 Persistence and degradability

The product is slowly degradable.



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12.3 Bioaccumulative potential

Partition coefficient not known.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB

The product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse data

Not relevant.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Only store in correctly labelled containers. Dispose of contents/container in accordance with national regulations. Do not empty into drains.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR, IMDG, IATA Not applicable

14.4 Packaging Group

ADR, IMDG, IATA Not applicable

14.5 Environmental hazards

Not a marine pollutant



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14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to this substance:

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 (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2 Chemical Safety Assessment

Not undertaken for this material

16. OTHER INFORMATION

Text of the hazard statements mentioned in Section 3:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains (2,4-dichlorophenoxy) acetic acid, dimethylamine salt. May produce an allergic reaction.

Liability

The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by Proctors, for Health and Safety purposes from the best knowledge available at the time of printing.

