

# Elliott's Lawn Feed and Weed Plus Moss Killer

Issue Date: 16-Mar-22  
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Revision Number: 3

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

### 1.1 Name of Product

Elliott's Lawn Feed and Weed Plus Moss Killer

### 1.2 Use of the Substance/Preparation

Amateur use as herbicide weed killer and moss killer.

### 1.3 Manufacturer/Distributor

Thomas Elliott (Fertilisers)  
Selby Place  
Stanley Industrial Estate  
Skelmersdale  
WN8 8EF  
Tel: 01695 51875  
Email: info@thomas-elliott.co.uk

### 1.4 Emergency Contact

Tel: 01695 51875 (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

### 2.2 Label elements

#### Pictogram



#### Signal Word

Warning

#### Hazard statements

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

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.

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

P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty containers which can be disposed of as non-hazardous waste.

#### Additional Information

EUH208 — Contains 2,4-D, dimethylamine salt & nickel sulphate. May produce an allergic reaction.

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

### 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, 8% iron, 2.86g/Kg 2,4D, 0.57g/Kg Dicamba, 2.86g/Kg Mecoprop-P

| <b>Ingredient</b>         | <b>CAS/EC</b>          | <b>Classification</b> | <b>% w/w</b> |
|---------------------------|------------------------|-----------------------|--------------|
| SSP Single Superphosphate | 8011-76-5<br>232-379-5 | Eye dam 1 H318        | 5-10%        |

| <b>Ingredient</b>  | <b>CAS/EC</b>          | <b>Classification</b>                                 | <b>% w/w</b> |
|--------------------|------------------------|-------------------------------------------------------|--------------|
| Iron (II) Sulphate | 7720-78-7<br>231-753-5 | Acute tox 4 H302<br>Skin irr 2 H315<br>Eye irr 2 H319 | 10-30%       |

| <b>Ingredient</b>          | <b>CAS/EC</b>           | <b>Classification</b> | <b>% w/w</b> |
|----------------------------|-------------------------|-----------------------|--------------|
| Quartz (SiO <sub>2</sub> ) | 14808-60-7<br>238-878-4 | Substance with a WEL  | 10-25%       |

| <b>Ingredient</b>        | <b>CAS/EC</b>          | <b>Classification</b>                                                       | <b>% w/w</b> |
|--------------------------|------------------------|-----------------------------------------------------------------------------|--------------|
| 2,4-D dimethylamine salt | 2008-39-1<br>217-915-8 | Acute tox 4 H302<br>Eye dam 1 H318<br>Skin sens 1 H317<br>Aq chronic 2 H411 | <1%          |

| <b>Ingredient</b>  | <b>CAS/EC</b>                                                              | <b>Classification</b>                                                      | <b>% w/w</b> |
|--------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------|
| Mecoprop - P (ISO) | 16484-77-8<br>240-539-0<br>M factor (acute) =10<br>M factor (chronic) = 10 | Acute tox 4 H302<br>Eye dam 1 H318<br>Aq acute 1 H400<br>Aq chronic 1 H410 | <1%          |

| <b>Ingredient</b> | <b>CAS/EC</b>          | <b>Classification</b>                                   | <b>% w/w</b> |
|-------------------|------------------------|---------------------------------------------------------|--------------|
| Dicamba (ISO)     | 1918-00-9<br>217-635-6 | Acute tox 4 H302<br>Eye dam 1 H318<br>Aq chronic 3 H412 | <1%          |

| <b>Ingredient</b> | <b>CAS/EC</b>                                                                                       | <b>Classification</b>                                                                                                                                    | <b>% w/w</b> |
|-------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Nickel Sulphate   | 7768-81-4<br>232-104-9<br>Skin Irrit. 2; H315: C ≥<br>20 %<br><br>Skin Sens. 1; H317: C ≥<br>0,01 % | Acute tox 4 H302<br>Acute tox 4 H332<br>Skin irr 2 H315<br><br>Resp sens 1 H334<br>Skin sens 1 H317<br><br>Muta 2 H341<br>Carc 1A H350i<br>Repr 1B H360D | <0.01%       |

STOT RE1; H372: C<sub>≥</sub>1% STOT RE 1 H372  
STOT RE 2; H373: 0,1  
% ≤ C < 1 %  
M factor (acute) =1 Aq acute 1 H400  
M factor (chronic) = 1 Aq chronic 1 H410

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. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 10 minutes. Seek medical attention if symptoms are severe or 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.

## 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.

### 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/m<sup>3</sup>

#### Iron (II) Sulphate-0), Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL (as Fe) 1.0 mg/m<sup>3</sup>

#### 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<sup>3</sup>

### General Population

|                                        |                       |
|----------------------------------------|-----------------------|
| Systemic long-term effects dermal:     | 10.4 mg/kg/day        |
| Systemic long-term effects inhalative: | 0.9 mg/m <sup>3</sup> |
| 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/L |
| Intermittent release | 17 mg/L   |
| STP                  | 10 mg/L   |

### 2,4-D (ISO) (CAS 94-75-7), Desired No Effect Level (DNEL)

#### Worker

|                                  |                      |
|----------------------------------|----------------------|
| Long-term exposure limit, TWA 8h | 10 mg/m <sup>3</sup> |
| Short-term                       | 20 mg/m <sup>3</sup> |

### Mecoprop (ISO) (CAS 7085-19-0), Desired No Effect Level (DNEL)

#### Worker

|                                  |                      |
|----------------------------------|----------------------|
| Long-term exposure limit, TWA 8h | 10 mg/m <sup>3</sup> |
| Short-term exposure limit        | 20 mg/m <sup>3</sup> |

## 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.

#### 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

### 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)

3,787.88

**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. In-vitro testing conducted on products with SSP Content <62%, 2015, Result: Reduced classification to Eye Irritant. Test Guideline OECD 438. This result is less severe than the harmonized classification for Super Phosphates as Eye Damage 1 H318.

**Respiratory sensitisation**

No specific test data are available.

**Skin corrosion/irritation**

Based on available data the classification criteria are not met. Not classified for skin irritant as confirmed via study data (OECD 439)

**Skin sensitisation**

Not classified for skin sensitisation category 1. Due to the content of 2,4-D and nickel sulphate and their classification as skin sensitisers, 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.

**Skin contact**

May produce an allergic skin reaction

## 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.

### 12.3 Bioaccumulative potential

Partition coefficient not known.





## 16. OTHER INFORMATION

### Reason for revision

Replaces version 2 dated 16 March 2022: Sections 2, 3, 8, 11 and 16.

### 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.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects

H350i May cause cancer by inhalation.

H360D May damage the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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 & nickel sulphate. May produce an allergic reaction.

### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

LC50: Lethal Concentration to 50 % of a test population.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

SVHC: Substances of Very High Concern.

vPvB: Very Persistent and Very Bioaccumulative.

cATpE: Converted Acute Toxicity Point Estimate.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

EC50: 50% of maximal Effective Concentration.

NOAEL: No Observed Adverse Effect Level.

NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration.

DMEL: Derived Minimal Effect Level.

### 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 Thomas Elliott (Fertilisers), for Health and Safety purposes from the best knowledge available at the time of printing.