

# Safety Data Sheet (SDS) Super LawnWeeder

According to UN GHS 8th Ed  
Revision Date: 18/08/2022

First print date: 01/09/2018  
Version: 1.1

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

### Product identifier:

**Identification as on the label/Trade name:** Super LawnWeeder

**Common Name:** Dicamba 120g/ℓ + 2,4-D 180g/ℓ + MCPA 157,5 g/ℓ SC

### Relevant identification uses of the substance and uses advised against:

**Identified uses:** Herbicide

**Uses advised against:** Use only as directed.

### Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Details of the Registration Holder:

Enviro Industries (Pty) Ltd., 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

### Emergency telephone numbers:

**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Acute toxicity (Category 4)	H302
Eye Damage (Category 1)	H318
Skin sensitisation (Category 1)	H317
Aquatic toxicity chronic (Category 2)	H411

For full text of H statements see section 16

### The most important adverse effects

**The most important adverse physiochemical effects:** None known

**The most important adverse human health effects:** Causes serious eye damage. Skin sensitiser.

### Label elements



Hazard pictograms

**Signal Word:** Danger

**Hazard Statements:**

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H302	Harmful if swallowed
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects

## Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P264	Wash hands, forearms, and face thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/ national/international

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

### Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
2,4-D (as dimethylamine)	2008-39-1	33%	Acute toxicity (Category 4) H302 Eye Damage (Category 1) H318 Skin Sensitization (Category 1) H317 Aquatic Chronic (Category 2) H411
MCPA (as dimethylamine)	2039-46-5	29%	Acute toxicity (Category 4) H302 Acute toxicity (Category 4) H312 Acute toxicity (Category 4) H332 Eye damage (Category 1) H318
Dicamba (Dimethylamine)	2300-66-5	22%	Eye irritation (Category 2) H319 Aquatic Chronic (Category 3) H412

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4. FIRST AID MEASURES

### Description of first aid measures:

**In case of inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

**In case of skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention immediately.

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**In case of eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**In case of ingestion:** Do not induce vomiting. Do not give anything by mouth to an unconscious person. Have victim rinse mouth thoroughly with water. Seek medical advice immediately showing container and label.

## Most important symptoms and effects, both acute and delayed:

### Symptoms of exposure to the product :

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes skin irritation. May be sensitising to some individuals.

**Eye Contact:** Causes serious eye damage.

**Ingestion:** Harmful if swallowed.

### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

## SECTION 5. FIRE FIGHTING MEASURES

### Extinguisher media:

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**Small Fire:** Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

**Large Fire:** Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

**Unsuitable** extinguishing media: Do not use high volume water jet, due to contamination risk.

### Special hazards arising from the mixture:

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

### Advice for fire-fighters:

Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

## SECTION 6. ACCIDENTAL RELEASE

### Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** Keep all personnel away. Avoid contact with eyes and skin.

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

### Environmental precautions:

Stop leak if without risk. Prevent entry into drains, watercourses, or confined areas; dike if needed. This product is classified to be toxic to aquatic organisms with long-term adverse effects in the aquatic environment.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

### Methods for containment and cleaning up:

**Spills:** Clean up promptly. Cover contained spill with an inert absorbent material such as sand, earth or other appropriate non-combustible material. Vacuum, scoop, or sweep up material and place the material into a

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clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill material. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent (i.e., organic solvent, detergent bleach, or caustic). Add the solution to the drums already collected. Open burning or dumping of this material is prohibited

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** Do not eat drink or smoke when handling this product. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used

### Conditions for safe storage, including incompatibilities:

Store in original containers. Store product in a segregated and approved area. Keep container in a cool, well-ventilated area at temperatures not exceeding 40°C Keep container tightly closed and sealed until ready for use. Keep under lock and key out of reach of unauthorized persons, children, and animals. Store away from incompatible substances.

### Specific end uses:

Use as directed. Use original container.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

No occupational exposure limits have been determined for the significant ingredients in this product.

### Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

**Appropriate engineering controls:** Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Use splash proof safety glasses and face shield .

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection:** Appropriate impervious clothing is required to prevent skin contact with the product, apron, rubber boots.

**Respiratory protection:** Avoid inhaling fumes or spray drift.

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**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid
Colour	Dark brown
Odour	Strong phenolic cresylic odour.
Odour threshold	No data available
pH	No data available
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	No data available
Evaporation rate	No data available
Flammability	Not flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C)	No data available
Water solubility (g/l) at 25°C	No data available
Solvent solubility	No data available
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available.
Oxidising properties	Dicamba is mildly to non-corrosive. MCPA is an acid and will corrode metals
Explosive limits	No data available

## SECTION 10. STABILTY AND REACTIVITY

**Reactivity:** None known

**Chemical stability:** The product is stable for 2 years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.

**Possibility of hazardous reactions:** No information available.

**Conditions to avoid:** None known

**Incompatible materials:** Strong bases such as lime and strong oxidising agents such as chlorates, nitrates and peroxides.

**Hazardous decomposition products:** Toxic oxides of carbon, nitrogen and phosphorus are released when the product decomposes on heating.

**Other decomposition products** - Steam, Dicamba amine salt, HCl, organochloride products, oxides of nitrogen, carbon monoxide may form during combustion.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**

**Assessment of acute toxicity:**

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The product has not been tested. The data reported is for the main ingredients in the mixture.

<b>2,4-D (as dimethylamine) CAS No. 2008-39-1</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat-female)	735 mg/kg
Acute Dermal LD50 (rabbit):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>3.5 mg/l
Skin irritation/ corrosion	Skin irritant
Eye damage / irritation	Causes severe irreversible eye irritation and corrosion
Respiratory or skin sensitization (Guinea pig)	Skin sensitiser
Germ cell mutagenicity	No mutagenic changes have been observed under experimental conditions.
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>MCPA (as dimethylamine)CAS No. 2039-46-5</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat-female)	962-1470 mg/kg
Acute Dermal LD50 (rabbit):	>4000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>6.36 mg/l
Skin irritation/ corrosion	Not a skin irritant
Eye damage / irritation	Causes serious eye damage
Respiratory or skin sensitization (Guinea pig)	Not a skin sensitiser
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

<b>Dicamba (Dimethylamine) CAS No. 2300-66-5</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat-female)	1707 mg/kg
Acute Dermal LD50 (rabbit):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	4.464 mg/l
Skin irritation/ corrosion	Not a skin irritant
Eye damage / irritation	Severe eye irritant
Respiratory or skin sensitization (Guinea pig)	Not a skin sensitiser
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available

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Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

**SECTION 12. ECOLOGICAL INFORMATION**
**2,4-D (as dimethylamine) CAS No. 2008-39-1**
**Toxicity**

Birds Acute oral LD50 Dietary LC50 (5 days)	500 mg/kg Bobwhite quail >2000mg/kg diet Mallard ducks
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia LC <sub>50</sub> (48 hr) Toxicity to algae EC50 (96h) Toxicity to bees LD <sub>50</sub> (contact and oral)	100 mg/l Rainbow trout >100 mg/l Daphnia magna: 51.2 mg/l for green algae ( <i>Selenastrum capricornutum</i> ) No data available
<b>Persistence and degradability</b>	2,4-D has a relatively short half-life (6 to 9 days in soil, 6 to 7 days in grass and is readily degraded into nontoxic substances by microbes and aquatic microorganisms.
<b>Bioaccumulation potential</b>	2,4-D is soluble in water and, therefore, does
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	Toxic to aquatic life with long lasting effects.

**MCPA (as dimethylamine) CAS No. 2039-46-5**
**Toxicity**

Birds Acute oral LD50 Dietary LC50 (5 days)	377 mg/kg Bobwhite quail >5620 mg/kg diet Mallard ducks and Bobwhite quail
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia LC <sub>50</sub> (48 hr) Toxicity to algae EC50 (96h) Toxicity to bees LD <sub>50</sub> (contact and oral) Worms LD <sub>50</sub> (14d)	50-560 mg/l Rainbow trout ; >150 mg/l Bluegill sunfish, ; 317mg/l Carp; 220 mg/l Silverside >190 mg/l Daphnia magna: >392 mg/l for green algae ( <i>Selenastrum capricornutum</i> ) >200 µg/bee 325 mg/kg dry soil
<b>Persistence and degradability</b>	In soil degraded to 4-chlor-2methylphenol, followed by ring hydroxylation and ring opening. DT <sub>50</sub> < 7 d after initial lag phase. Duration of residual activity on soil is c 3-4 mo, following an application rate of 3kg/ha.
<b>Bioaccumulation potential</b>	2,4-D is soluble in water and, therefore, does
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

**Dicamba (Dimethylamine) CAS No. 2300-66-5**
**Toxicity**

Birds Acute oral LD50 Dietary LC50 (8 days)	216 mg/kg Bobwhite quail ; 1373 mg/kg Mallard ducks >10000 mg/kg diet Mallard ducks and Bobwhite quail
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Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia LC <sub>50</sub> (48 hr) Toxicity to algae EC50 (96h) Toxicity to bees LD <sub>50</sub> (contact and oral) Worms LD <sub>50</sub> (14d)	135 mg/l Rainbow trout and Bluegill sunfish, 120.7 mg/l Daphnia magna: >3.7 mg/l for <i>Pseudokirchneriella subcapitata</i> >100 µg/bee Non toxic to bees >1000 mg/kg dry soil
<b>Persistence and degradability</b>	Microbial degradation occurs, principal metabolite 3,6 dichlorosalicylic acid. Under rapid metabolism DT50 <14d; Koc 242-2930, depending on soil.
<b>Bioaccumulation potential</b>	Not determined. (Incl Kow)
<b>Mobility in Soil</b>	Not determined.
<b>Result of PBT and vPvB assessment</b>	Not determined.
<b>Other adverse effects</b>	Not determined.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods:

#### Product:

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

#### Container:

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

## SECTION 14. TRANSPORT INFORMATION

UN Number	3082
UN proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Dicamba 120g/l, 2.4-D 180g/l & MCPA 157,5 g/l)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

## SECTION 15. REGULATORY INFORMATION

### Safety, health, and environmental regulations/legislation for the mixture:

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

### Relevant information regarding restrictions:

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

### Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions



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Chemical Safety Assessment carried out? No

## SECTION 16. OTHER INFORMATION

### Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]  
GHS aligned – all sections

### Relevant H statements (number and full text):

H312-Harmful in contact with skin  
H319-Causes serious eye irritation  
H332-Harmful if inhaled  
H412-harmful to aquatic life with long lasting effects

Acute toxicity Oral (Category 4): Harmful if swallowed  
Eye damage (Category 1): Causes serious eye damage  
Skin sensitisation (Category 1): May cause an allergic skin reaction  
Aquatic chronic toxicity (Category 2): Toxic to aquatic life with long lasting effects.

### Training instructions:

Use as indicated on the label, special training may be required for application.

### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.