SAFETY DATA SHEET



GREENFORCE LAWN WEEDKILLER

Compilation date: 05/03/2015

Revision No:

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

1.1 **Product identifier**

Product Name: Greenforce Lawn Weedkiller

Product Number(s):

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

Controls all major lawn weeds

1.3 Details of the supplier of the safety data sheet

Agrichem (International) Limited,

Industrial Estate, Station Road, Whittlesey,

Cambs. PE7 2EY, United Kingdom

Tel: 01733-204019 Fax: 01733-204162

Email: admin@agrichem.co.uk

1.4 **Emergency telephone number**

Emergency tel: 01733-204019

Section 2: Hazards identification

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP):

Hazard pictogram: Not Classified Signal words: Not Classified **Hazard statements:** Not Classified

Precautionary statements: P101: If medical advice is needed, have product container

or label at hand

P102: Keep out of reach of children

P103: Read label before use

P501: Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of in the dustbin. Contact

your local council for details.

2.3 Other hazards

Not available

Section 3: Composition/information on ingredients

3.1 Substances

Not available

3.2 Mixtures

No.	Classification	% Wt.
CAS No: 66423-05-0	H302 Acute Tox. 4	1-10%
EINECS: 240-539-0	H318 Eye Dam. 1	
REACH:	H411 Aquatic Chronic 2	
CAS No: 1918-00-9	H302 Acute Tox. 4	0-5%
EINECS: 217-635-6	H332 Acute Tox. 4	
REACH:	H318 Eye Dam 1	
	H411 Aquatic Chronic 2	
CAS No: 1310-58-3	H302 Acute Tox. 4	0-0.5%
EINECS: 215-181-3	H314 Skin Corr. 1A	
REACH:		
	CAS No: 66423-05-0 EINECS: 240-539-0 REACH: CAS No: 1918-00-9 EINECS: 217-635-6 REACH: CAS No: 1310-58-3 EINECS: 215-181-3	CAS No: 66423-05-0 EINECS: 240-539-0 REACH: CAS No: 1918-00-9 EINECS: 217-635-6 REACH: H302 Acute Tox. 4 H411 Aquatic Chronic 2 H302 Acute Tox. 4 H318 Eye Dam 1 H318 Eye Dam 1 H411 Aquatic Chronic 2 CAS No: 1310-58-3 EINECS: 215-181-3 H302 Acute Tox. 4 H318 Eye Dam 1 H411 Aquatic Chronic 2

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for

at least 10 minutes maintaining eyelids open. Protect unharmed eye. Take care not to wash the chemical from one eye into the other. Obtain medical attention

immediately (show this Safety Data Sheet)

Skin Contact: Remove contaminated clothing immediately. If skin contamination occurs wash

immediately with plenty of clean, gently flowing water for at least 10 minutes. Repeat skin decontamination process until all signs of chemicals have gone.

Obtain medical attention immediately (show this Safety Data Sheet)

Ingestion: If ingestion is suspected, do not induce vomiting. If conscious, drink plenty

of water. Obtain medical attention immediately (show this Safety Data

Sheet)

Inhalation: Move to fresh air. If there is breathing difficulty or coughing, keep patient at rest

seated in position of maximum comfort. Obtain medical attention immediately

(show this Safety Data Sheet)

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indication of any immediate medical attention and special treatment needed

Immediately wash eyes with water

Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or water spray

5.2 Special hazards arising from the substance or mixture

May give off toxic fumes in a fire

5.3 Advice for firefighters

Chemical protection suit to prevent contact with skin and eyes, suitable gloves for fire-fighters, boots and self-contained breathing apparatus

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing (see Section 8)

6.2 Environmental precautions

Do not allow product to enter drains or water courses

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material, place in suitable labelled containers and dispose as hazardous waste. Where appropriate, refer to Sections 8 and 13

6.4 Reference to other sections

Refer to Sections 8 and 13

Section 7: Handling and Storage

7.1 Precautions for safe handling

When using, do not eat, drink or smoke. Avoid direct contact with the substance

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place to which children do not have access. Keep away from food, drink and animal feedstuff

7.3 Specific end use(s)

Not Available

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Standards:

Chemical Name National Occupational Exposure Limits

(R)-2-(4-Chloro-2-methylphenoxy) WEL (8 hr TWA): 10 mg/m³ propionic acid, potassium salt WEL (15 min STEL): 20 mg/m³

3,6-dichloro-2-methoxy benzoic acid, OEL: 10 mg/m³

acid, potassium salt

Potassium hydroxide WEL (15 min STEL): 2 mg/m³

8.2 Exposure Controls

Engineering ControlThe usual precautionary measures for handling chemicals should

Measures: be observed

Hygiene Measures: When using do not eat, drink or smoke. Shower or bathe at the

end of working

Respiratory Protection:Wear suitable respiratory equipmentSkin and Body:Wear suitable protective clothingHands:Wear chemical resistant glovesEyes:Wear suitable eye/face protection

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:Clear brown liquidOdour:Slight PhenolicpH:(9.6 – 11.5)

Specific Gravity: 1.030 g/ml @ 20°C (typical)

Boiling Point: No data available

Melting Point/Range: Not applicable, aqueous solution

Decomposition Temp.: No data available **Flash Point:** No data available **Auto Ignition Temp.:** No data available

Flammability: Not applicable, aqueous solution

No data available **Explosive Properties: Oxidising Properties:** No data available **Vapour Pressure:** No data available

Bulk Density: Not applicable, aqueous solution

Soluble in water **Solubility (Water): Solubility (Fat Solvent):** No data available

Partition Coefficient: (CMPP-P) $Log P_{ow} = -0.39 @ pH 7$

Log $P_{ow} = -1.9$ (Octanol/Water 25°C; pH 8.9) (Dicamba)

Viscosity: No data available

9.2 Other information

Not Available

Section 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions

10.2 **Chemical stability**

Stable under recommended storage conditions

Possibility of hazardous reactions 10.3

Not Available

10.4 **Conditions to avoid**

Avoid direct heat protect from frost

10.5 **Incompatible materials**

Avoid strong acids, strong bases and oxidising agents

10.6 Hazardous decomposition products

May generate toxic fumes of carbon dioxide and carbon monoxide

Section 11: Toxicological information

11.1 **Information on toxicological effects**

CMPP-P K 600 g/l AI

Acute Toxicity:

Ingestion: $LD_{50}/oral/rat = 500-2000 \text{ mg/kg}$. Harmful if swallowed

Skin Contact: $LD_{50}/dermal/rat > 2000 \text{ mg/kg}$ $LC_{50}/inhalation/4h/rat = > 5.4 mg/l$ **Inhalation:**

Skin Contact: There may be irritation and redness at the site of contact **Eye Contact:**

There may be irritation and redness. The eyes may

water profusely

Ingestion: There may be soreness and redness of the mouth and

throat. Nausea and stomach pain may occur. There may

be vomitting

Inhalation: No symptoms

Delayed/Immediate Effects: Immediate effects can be expected after short-term

exposure

Dicamba Technical (≥ 97% w/w)

Acute Toxicity: LD₅₀/oral/rat 1879 mg/kg

> LD₅₀/dermal/rat >2000 mg/kg LC₅₀/inhalation/4h/rat 5.19 mg/l air

Eve Irritation: Severely irritating **Skin Irritation:** Mildly irritating **Sensitization:** Not skin sensitising

Mutagenic/Carcinogenic/ Negative

Teratogenicity/Reproductive/STOT:

Potassium Hydroxide

Toxicity: $LD_{50}/oral/rat = 273$ mg/kg. Strong caustic effect

Inhalation: No data available Eve: Strong caustic effect Skin: Strong caustic effect

Sensitization: None known Mutagenic/Carcinogenic/ No data available

Teratogenicity/Reproductive/STOT:

12 **ECOLOGICAL INFORMATION**

12.1. **Toxicity**

Dicamba Technical

Toxicity to Fish: LC₅₀ Oncorhynchus mykiss (Rainbow Trout) 135.4 mg/l, 96h

Toxicity to Aquatic EC₅₀ Daphnia magna (Water Flea) 110.7 mg/l, 48h

Invertebrates:

Toxicity to Aquatic Plants: EbC₅₀ Anabaena flos-aquae (Bluegreen algae) 43.1 mg/l, 72h

ErC₅₀ Anabaena flos-aquae (Bluegreen algae) 44.9 mg/l, 72h

NOEC Lemna gibba (Duckweed) 0.25 mg/l, 14d

IC₅₀ activated sewage sludge >500 mg/l, 3h **Toxicity to Bacteria:**

12.2 Persistence & Degradability

> Biodegradability: Not readily biodegradable

Stability in Water: Degradation half life: 35 - 46 d. Not persistent in water Degradation half life: 1.4 - 11 d. Not persistent in soil Stability in Soil:

12.3 **Bioaccumulative Potential**

Dicamba has low potential for bioaccumulation

12.4 **Mobility**

Dicamba has very high mobility in soil

12.5 Results of PBT and vPvB assessment

> This substance is not considered to be persistent, bioaccumulating nor toxic (PBT) This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6 **Other Adverse Effects**

None known

Potassium Hydroxide

Aquatic Toxicity: LC₅₀ (96h) 80 mg/l (Gambusia affinis)

12.2 Persistence & Degradability

Methods for the determination of biodegradability are not applicable to inorganic substances

12.3 Bioaccumulative Potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected

12.4 Mobility

Water hazard class 1 (German Regulation) (Assessment by list): Slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized

12.5 Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

12.6 Other Adverse Effects

No further relevant information available

CMPP-P K 600 g/l AI

Ecotoxicity: Algae 72 h; IC₅₀: 204 mg/l (MCPP-p-DMA)

Daphnia 48 h; EC₅₀: 272 mg/l (MCPP-p DMA)

Fish Rainbow Trout 96 h; LC₅₀: 127 mg/l (MCPP-p DMA)

12.2 Persistence & Degradability

Rapidly biodegradable

12.3 Bioaccumulative Potential

Potential for bioaccumulation is low based on log Pow

12.4 Mobility

Fairly mobile but rapidly degraded in aerobic soils

12.5 Results of PBT and vPvB assessment

This substance is not identified as a PBT substance

12.6 Other Adverse Effects

Lemna gibba 14 day EC₅₀ 1.6 mg/l

Section 13: Disposal considerations

13.1. Waste treatment methods

Product Disposal: Dispose of according to local and national regulations **Container Disposal:** Triple rinse containers with water and dispose of according

to local and national regulations

Section 14: Transport Information

Not classified as hazardous for road transport under ADR

- 14.1 UN number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARP0L73/78 and the IBC Code

Section 15: Regulatory information

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

No data available

15.2 Chemical safety assessment

No data available

Section 16: Other information

Text of Phrases mentioned in Sections 2 and 3:

H-Statements	
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects
H315	Causes skin irritation
H412	Harmful to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, release and is not to be considered a warranty of quality specification. The 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 unless specified in the text