

Croplink (Ireland) Ltd

MATERIAL SAFETY DATA SHEET Legumex DB

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: Legumex DB

Supplier: Croplink (Ireland)Ltd 1 Ailwee Lane Ballyvaughan Co Clare
Telephone 065 7077331

Emergency No: National Poisons Information Centre
Tel: 01-8379964 Fax: 01-8368476

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substance Name</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Class</u>	<u>Weight %</u>
4-(2,4-dichlorophenoxy) butyric acid, sodium salt	10433-59-7	233-917-1	Xn; R22 Xi; R41 N; R51/53	20-30%
(4-chloro-2-methylphenoxy) acetic acid, potassium salt (MCPA K)	5221-16-9	226-015-4	Xn; R20/21/22	0-5%

3. HAZARD IDENTIFICATION

Main Hazards: Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. 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, send to hospital immediately. 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).

Croplink (Ireland) Ltd

MATERIAL SAFETY DATA SHEET Legumex DB

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable Extinguishing Media: None known.

Special Hazards of Product: May give off toxic fumes in a fire.

Special Protective Equipment for Firefighters: As for all fires involving chemicals: chemical protective suit, suitable gloves equipment for firefighters, boots and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing (see Section 8).

Environmental Precautions: Do not allow product to enter drains or water courses.

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

7. HANDLING AND STORAGE

Handling: When using do not eat, drink or smoke.

Storage: 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.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standards:

Chemical Name

National Occupational Exposure Limits

4-(2,4-dichlorophenoxy) butyric acid, sodium salt

None assigned in current Irish edition of the 2002 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. The calculated exposure limit based on the value for a similar material 2,4-D the calculated salt equivalent:
Long-term exposure limit (8-hour TWA reference period) 10 mg/m³
Short-term exposure limit (15-minute reference period) 20 mg/m³

(4-chloro-2-methylphenoxy) acetic acid, potassium salt

WEL (8 hr TWA) : 10 mg/m³
WEL (15 min STEL) : 20 mg/m³

Croplink (Ireland) Ltd

MATERIAL SAFETY DATA SHEET Legumex DB

Engineering Control Measures:	The usual precautionary measures for handling chemicals should 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 equipment.
Hands:	Wear chemical resistant gloves.
Eyes:	Wear suitable eye/face protection.
Skin and Body:	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear brown liquid
Odour:	Characteristic slight phenolic
pH:	(9.0-11.5)
Specific Gravity:	1.14 g/ml @ 20°C (typical)
Boiling Point:	>100°C
Melting Point/Range:	Not applicable, aqueous solution
Decomposition Temp.:	No data available
Flash Point:	Not applicable, aqueous solution
Auto Ignition Temp.:	Not applicable, aqueous solution
Flammability (solid, gas):	Not flammable under normal handling, aqueous solution
Explosive Properties:	None known
Oxidising Properties:	None known
Vapour Pressure:	No data available
Bulk Density:	Not applicable
Solubility:	Water Solubility: Completely miscible with water Fat/Solvent Solubility: No data available
Partition Coefficient:	DB Log P _{ow} = 1.35 @ pH7 MCPA Log P _{ow} = -0.71 @ pH7
Viscosity:	No data available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Avoid direct heat. Protect from frost.
Materials to Avoid:	Avoid strong acids, strong bases and oxidizing agents.
Hazardous Decomposition Products:	May generate toxic fumes of carbon dioxide, carbon monoxide and hydrogen chloride gas.

CROPLINK (Ireland) Ltd

MATERIAL SAFETY DATA SHEET Legumex DB

11. TOXICOLOGICAL INFORMATION

Information on MCPA K 400 g/l AI

Acute Toxicity: IHL Rat LC₅₀: >5.21 mg/l
ORL Rat LD₅₀: 1662 mg/kg
SKN Rabbit LD₅₀: >2000 mg/kg

Routes of Exposure: Refer to Section 4 of MSDS for routes of exposure and corresponding symptoms.

Information on 2,4-DB Na 400 g/l AI

Acute Toxicity : ORL Rat LD₅₀: >500 mg/kg
SKN Rat LD₅₀: >2000 mg/kg

Routes of Exposure: Refer to Section 4 of MSDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Information on MCPA K 400 g/l AI

Mobility: Readily absorbed into soil.
Persistence & Degradability: Biodegradable.
Bioaccumulative Potential: No bioaccumulation potential.
Other Adverse Effects: Negligible ecotoxicity.

Information on 2,4-DB Na 400 g/l AI

Ecotoxicity: Algae 72 h; IC₅₀: 23.2 mg/l
Fish Rainbow Trout 96 h; LC₅₀: 17.8 mg/l
Mobility: Limited mobility in the soil column.
Persistence & Degradability: Rapidly biodegradable.
Bioaccumulative Potential: Potential for bioaccumulation is low based on Log P_{ow}.
Other Adverse Effects: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

Not classified as hazardous for road transport under ADR.

CROPLINK (Ireland) Ltd

MATERIAL SAFETY DATA SHEET

Legumex DB

15. REGULATORY INFORMATION

Contains: 4-(2,4-dichlorophenoxy) butyric acid, sodium salt
(4-chloro-2-methylphenoxy) acetic acid, potassium salt

Symbol(s):



Xi - Irritant

Risk Phrase(s): **R38** - Irritating to skin.
R41 - Risk of serious damage to eyes.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s): **S2** - Keep out of reach of children.
S13 - Keep away from food, drink and animal feedstuff.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S46 - If swallowed, seek medical advice and show this container or label.
SF40 - Keep livestock out of treated areas for at least 2 weeks and until poisonous weeds such as Ragwort has died and disappeared.
SF51 - Do not contaminate ponds, waterways or ditches with chemicals or used container.

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2: **R22** - Harmful if swallowed.
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R41 - Risk of serious damage to eyes.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 a 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.