

Croplink Ireland Ltd

MATERIAL SAFETY DATA SHEET Croplink D50

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: Croplink D50

Supplier: Croplink Ireland Ltd, 1 Aillwee Lane, Ballyvaughan Co. Clare
Tel: 065 7077331 065 7077334

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>% w/w</u>
(2,4-dichlorophenoxy) acetic acid, dimethylamine salt	2008-39-1	217-915-8	Xn; R22, Xi; R41, R43, N: 51, 53	30-50%
2,4 Dichlorophenol	120-83-2	204-429-6	T: R24, Xn; R22 C: R34, N: R51, 53	0-5%

3. HAZARD IDENTIFICATION

Main Hazards: Harmful if swallowed. Risk of serious damage to eyes. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

4. FIRST AID MEASURES

General Advice: Obtain medical attention immediately (show this Safety Data Sheet). If unconscious check breathing and pulse (heartbeat). Give artificial ventilation and chest compression if necessary. If unconscious but breathing and pulse is normal, place in the recovery position.

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for at least 10 minutes maintaining eyelid 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, 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).

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5. FIRE-FIGHTING MEASURES

- Extinguishing Media:** Extinguish with carbon dioxide, dry chemical, foam or waterspray.
- Unsuitable Extinguishing Media:** None.
- 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 for firefighters, boots and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes, clothing and inhalation of vapours. Wear appropriate protective clothing. (See Section 8).
- Environmental Precautions:** Do not let product enter drains. Do not allow material to contaminate ground water system.
- Spillage:** Soak up with inert absorbent material, place in suitable labelled containers and dispose as hazardous waste.

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 feeding stuff.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standards:

Chemical Name

National Occupational Exposure Limits

(2,4-dichlorophenoxy)
acetic acid, dimethylamine 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.

2,4 Dichlorophenol

None assigned in current Irish edition of the 2002 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001.

Dimethylamine

Long-term exposure limit
(8-hour TWA reference period) 10 ppm, (18 mg/m³)

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Engineering Control Measures:	The usual precautionary measures for handling chemicals should be observed.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Shower or bathe at the end of working.
Respiratory Protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Skin and Body:	Wear suitable protective clothing.
Hands:	Wear chemical resistant gloves.
Eyes:	Wear suitable eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear brown liquid
Odour:	Characteristic amine - like
pH:	(7.5-9.5)
Specific Gravity:	1.17 g/ml @ 20°C (typical)
Boiling Point:	No data available
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 applicable, aqueous solution
Explosive Properties:	None known
Oxidising Properties:	None known
Vapour Pressure:	Not applicable, aqueous solution
Bulk Density:	Not applicable, aqueous solution
Solubility:	Water Solubility: Completely miscible Fat/Solvent Solubility: No data available
Partition Coefficient:	For 2,4-D Log P _{ow} = -0.91 @ pH7
Viscosity:	23.4 cP for 2,4-D DMA 600 g/l AI

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Avoid direct heat.
Materials to Avoid:	Avoid strong acids and oxidising agents.
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, nitrogen oxides and hydrogen chloride gas.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Information on 2,4-D DMA 500g/l AI	
	Oral:	Harmful if swallowed. LD ₅₀ (Rat) = 1297mg/kg
	Dermal:	Harmful in contact with skin. LD ₅₀ (Rat) = >4000mg/kg
	Inhalation:	Not classified as harmful by inhalation. LC ₅₀ (Rat)/4h = >5.01mg/l
Eye Irritation:	Severe eye irritation to rabbit. Risk of serious damage to eyes.	

12. ECOLOGICAL INFORMATION

Mobility:	Fairly mobile, but rapidly degraded in aerobic soils.	
Persistence/Degradability:	Rapidly degraded in aerobic soils (for 2,4-D aerobic half-life = 3-10 days).	
Bioaccumulation:	Potential for bioaccumulation is low based on log P _{ow} .	
Ecotoxicity:	Information on 2,4-D DMA/l	
	LC ₅₀ /96h/Rainbow Trout = >200 mg	
	EC ₅₀ /48h/Daphnia = >200 mg	
	LC ₅₀ /72h/Algae = 178 mg	

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.

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15. REGULATORY INFORMATION

Contains: (2,4-dichlorophenoxy) acetic acid, dimethylamine salt

Symbol(s):



Xn - Harmful



N - Dangerous for the Environment

Risk Phrase(s): **R22** - Harmful if swallowed.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitization by skin contact.
R51/53 - Toxic to aquatic organisms. May cause long-term adverse effect in the aquatic environment.

Safety Phrase(s): **S2** - Keep out of reach of children.
S13 - Keep away from food, drink and animal feeding stuff.
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.
S45 - In case of accident, or if you feel unwell, seek medical advice immediately (show this label where possible).
FS51 - Do not contaminate waterways or ditches with chemical or used container. Do not empty into drains.
FS40 - Keep livestock out of treated area for at least two weeks if poisonous weeds such as Ragwort are present.

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 2: **R22** - Harmful if swallowed.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitization by skin contact.
R51/53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R24 - Toxic in contact with skin.
R34 - Causes burns.

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.