



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Outrun
Approved Use: Herbicide
Supplier: Barclay Chemicals Manufacturing Ltd.,
Damastown Way
Damastown Industrial Park
Mulhuddart
Dublin 15
Ireland.
Telephone No: 00-353-1-8112900
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Issued By: Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)
00-353-863857769 (5pm to 9am)

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	MCPA, potassium salt
2.	Mecoprop-P, potassium salt
3.	Dicamba

No.	CAS No.	EC No.	R Phrases	Concentration	Classification
1.	5221-16-9	226-015-9	R20/21/22	10.8% w/w	Xn,
2.	66423-05-0	----	R20/22	20.5% w/w	Xn
3.	1918-00-9	217-635-6	R22,R41,R52/53	1.7% W/W	Xn

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required,
E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable,
Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic,
R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

Human: Harmful by inhalation and if swallowed
Risk of serious damage to eyes
Irritating to skin.

4. FIRST-AID MEASURES

Inhalation:	Remove patient from exposure. Seek medical attention.
Skin Contact:	Remove contaminated clothing and wash thoroughly with running water for at least 10 minutes. Then send immediately to doctor.
Eye Contact:	Irrigate with clean water for at least 15 minutes. Protect unharmed eye.
Ingestion:	DO NOT induce vomiting. Seek immediate medical attention.
General	If a person feels unwell after coming into contact with this product then seek medical attention immediately. Remove contaminated clothing and wash thoroughly with soap and water. If unconscious, check breathing and pulse (heartbeat). Give artificial ventilation and chest compression if necessary. If unconscious but breathing and pulse are normal, place in recovery position.

Guide to doctor:
Treat as for Phenoxyacetate poisoning. Symptoms include hypersalivation, stomach cramps, vomiting and diarrhoea. No specific antidotes, treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water Foam Carbon dioxide
Special Exposure Hazards:	Do not use direct water spray
Protective Equipment:	May give off toxic fumes in a fire. Wear breathing apparatus and protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes, or clothing. Do not inhale mists, aerosols or dusts. Avoid ingestion. Wear suitable protective clothing, boots, gloves and eye/face protection.
Environmental Precautions:	DO NOT contaminate surface waters or ditches with chemical or used containers. Minimise spray drift onto adjoining fields or water bodies.
Methods for Cleaning Up:	Contain and absorb spillage with sand, sawdust or similar material. Dispose of via reputable contractor or local authority. Do not allow spillage to contaminate watercourses or drains. NB. Inform local Water plc immediately if spillage enters drains, and report any contamination of surface water or ground waters to the National Rivers Authority or River Purification Board.

7. HANDLING AND STORAGE

Handling:

Ensure there is sufficient ventilation of the area. Avoid contact with skin/eyes. DONOT inhale mists. Avoid ingestion. When using do not eat, drink or smoke. Wash hands and exposed skin before meals and after work.

Storage:

Store and load away from foodstuffs and seeds and protect from children. Keep tightly closed in original container and store in a suitable pesticide store.

Packing:

Freestanding 10L drums.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits:

None assigned for any ingredient in current UK HSE publication EH40.

MCPA, potassium salt

Based on the value for the chemically similar material, technical 2,4D acid the calculated salt equivalent long term limit is 12mg/m³ (8hr), or 24mg/m³ (15 min).

Mecoprop-P, potassium salt.

Based on the value for the chemically similar material, technical 2,4D acid the calculated salt equivalent long term limit is 12mg/m³ (8hr), or 24mg/m³ (15 min).
Note: where the product contains both R and S isomers, the Occupational Exposure Limit quoted is for the S & R isomers combined.
Dicamba None assigned in current UK HSE publication EH40.

Dicamba

Engineering Measures to Reduce Exposure:

None assigned in current UK HSE publication EH40

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Gloves must meet the requirements of European Standard EN 374:1994

Eye protection:

Hygiene measures:

Wear suitable eye protection.

When using do not eat, drink or smoke. Shower or bathe at the end of working.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid
Odour:	Distinctive Phenoxy smell
pH:	10.5-12.0
Water Solubility:	Fully miscible in water
Boiling Point	>100 °C
Melting Point	N/a aqueous solution
Flash Point:	None (water based)
Relative Density:	1.0 g/l at 20°C

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions
Conditions to Avoid:	Exothermic reactions with strong acids
Materials to Avoid:	String acids and oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide Carbon dioxide Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Inhalation:	Mecoprop-P (a.i.) irritant to mucous membranes and lungs
Inhalation LC50:	Dicamba (a.i.): (rat) > 9.6 mg/L (4 hour). Mecoprop-P (a.i.): (rat) > 5.6 mg/L (4 hour) MCPA (a.i.): (rat) >5.21 mg/L (4 hour)
Oral LD50:	rat) 3000 mg/kg (calculated)
Skin Contact:	Mecoprop-P (a.i.): harmful in contact with skin. MCPA (a.i.): harmful in contact with skin.
Eye Contact:	All actives show risk of serious damage to eyes. Always wear suitable eye protection.
Mutagenicity:	Not mutagenic in Ames test
Dermal LD50 :	Mecoprop-P (a.i.): (rat) 1460mg/kg body weight. Dicamba & MCPA (a.i.'s): >2000 g/kg body weight.

12. ECOLOGICAL INFORMATION

Assessment largely or completely based on data for active ingredient.

Ecotoxicity	Dicamba (a.i.): (rainbow trout) LC50 135 mg/L 96 hours. For mecoprop-P (a.i.): (rainbow trout) LC50 > 150 mg/L (96 hours)
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For dicamba (a.i.) : (rainbow trout) LC50 > 135.4 mg/L (96hr)
Bluegill LC50 135.3 mg/L
Rapidly degraded in aerobic soils.

Persistence and Degradability:

13. DISPOSAL CONSIDERATIONS

Product, Containers and Waste: Do not contaminate ponds, waterways and ditches with chemical or used container.
By incineration in accordance with the current UK legislation.
For minor incidents or unwanted product follow the guidance of the disposal of pesticides and containers as given in part 5 of the MAFF/HSE Pesticide code of Practice for the safe use of Pesticides on Farms and Holdings.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Xn

Hazard Symbol : Xn - Harmful

R- PHRASES:

- R20/22** - Harmful by inhalation and if swallowed.
- R41** - Risk of serious damage to eyes
- R38** - Irritating to skin

S- PHRASES:

- S2** - Keep out of the reach of children
- S23** - Do not breath spray
- S26** - In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice
- S36/37/39** - Wear suitable protective clothing, gloves and eye/face protection
- S46** - If swallowed seek medical advice immediately and show this container or label
- S61** - Avoid discharge in the environment. Consult the label/safety data sheet.

Refer to the Product Label for full local Regulatory Authority label precautions.

16. OTHER INFORMATION



Revision 0 Date Prepared: 04/10/06
Revision 1 Date Prepared: 11/12/06 Emergency phone number updated

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.