



Material Safety Data Sheet

According to EC Regulation 1907/2006

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification of the substance or preparation

MSDS Ref. No.: P50030
Product name: Re-Act

Use of the Substance/Preparation

Recommended use: For use only as a horticultural herbicide.

Company/Undertaking Identification

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2. HAZARDS IDENTIFICATION

Classification

Indication of danger:

The product is classified and labelled in accordance with Directive 2006/8/EC.
To avoid risks to man and the environment, comply with the instructions for use.

Xn



Most important hazards

R -phrase(s)

R22 - Harmful 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.

2. HAZARDS IDENTIFICATION

S -phrase(s)

S25 - Avoid contact with eyes.
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S35 - This material and its container must be disposed of in a safe way.
 S39 - Wear eye/face protection.
 S46 - If swallowed, seek medical advice immediately and show this container or label.
 S57 - Use appropriate container to avoid environmental contamination.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Ingredients	CAS-No	Weight %	EC-No.	Classification
MCPA, Dimethylamine Salt	2039-46-5	10 - 25%	218-014-2	Xn: R20/21/22
Mecoprop-p, Dimethylamine Salt	66423-09-4	10 - 25%	-	Xn: R20/21/22
Dimethylamine dicamba	2300-66-5	1 - 5%	607-044-00-5	R52/53 Xi;R36

NE = Non-Established

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. Oxygen or artificial respiration if needed.
Skin contact:	Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Notes to physician:	Artificial respiration and/or oxygen may be necessary

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray mist or foam. Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None known

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapours. Hydrogen chloride. Carbon and nitrogen oxides.

Special protective equipment for firefighters:

Use personal protective equipment. Self-contained breathing apparatus and suitable protective clothing.

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment. Avoid contact with eyes.

Environmental precautions:

Do not contaminate water. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

Dam up. Soak up with inert absorbent material. Use mechanical handling equipment. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling:**Technical measures/precautions:**

Ensure adequate ventilation.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Do not breathe vapours or spray mist.

Storage:**Technical measures/storage conditions:**

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

Incompatible products:

Acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls**Personal protective equipment****Respiratory protection:**

In case of insufficient ventilation wear suitable respiratory equipment. Respirator with FFP1 filter.

Hand protection:

Protective gloves. Nitrile rubber. PVC disposable gloves.

Eye/face protection

Safety glasses with side shields or goggles.

Skin and body protection:

Lightweight protective clothing. Rubber or plastic boots.

Hygiene measures

Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Wash hands before stopping and immediately after handling.

Exposure limit values**Environmental exposure controls**

There are no Occupational Exposure Limits available.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State: Liquid
Color: Dark brown
Odor: fish

Important Health Safety and Environmental Information

Boiling point/range: Approximately 100 (°C)
Melting point/range: Not applicable
Flash point: > 100 (°C)
Density: 1.13g/ml
Solubility: Completely miscible
Vapour pressure: Not applicable
Vapour density: Not applicable
Partition coefficient (n-octanol/water): Log Pow :
 0.71 (MCPA)
 2.8 (Mecoprop-P)
 -1.9 (Dicamba)
Explosive properties: Doesn't present explosion hazard
Flammability (solid, gas): Non-flammable

Other information

pH: 7.5 - 9

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: No dangerous reaction known under conditions of use.
Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous reactions: None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

Component information

MCPA, Dimethylamine Salt

LD50/oral/rat = 962mg/kg
 LD50/dermal/rat = >4000mg/kg
 LC50/inhalation/4h/rat = >6.36mg/l

Mecoprop-p, Dimethylamine Salt

LD50/oral/rat = 1050mg/kg
 LD50/dermal/rabbit = >4000mg/kg
 LC50/inhalation/4h/rat = >5.6mg/l

Dimethylamine dicamba

LD50/oral/rat = 1707mg/kg
 LD50/dermal/rabbit = >2000mg/kg
 LC50/inhalation/4h/rat = >4.46mg/l

Product information**Local effects**

Skin effects: Irritating to skin.
Eye effects: Severe eye irritation.
Inhalation: No information available.
Ingestion: No information available.

12. ECOLOGICAL INFORMATION**Product information**

Aquatic toxicity: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Ecotoxicity No ecological information is known on the product
Persistence and degradability No persistent or cumulative effects were observed
Bioaccumulative potential Does not bioaccumulate
Mobility in soil No information available

Component information*MCPA, Dimethylamine Salt*

Ecotoxicity effects
 EC50/48h/daphnia = >190mg/l
 LC50/96h/rainbow trout = 50mg/l
 EC50/72h/algae = 57mg/l

Mecoprop-p, Dimethylamine Salt

Ecotoxicity effects
Ecotoxicity effects
 LC50/96h/rainbow trout =150-220mg/l
 LD50/Bobwhite quail =500mg/kg

*Dimethylamine dicamba***Ecotoxicity effects**

EC50/48h/daphnia = 110mg/l

LC50/96h/rainbow trout = 135mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not empty into drains. Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Do not re-use empty containers. Dispose of in accordance with local regulations and national regulations.

14. TRANSPORT INFORMATION**Product information**

Physical State: Liquid

ADR/RID

UN-No: Not classified for transport

IATA

UN-No: Not classified for transport

IMO / IMDG

UN-No: Not classified for transport

15. REGULATORY INFORMATION**Indication of danger:**

The product is classified and labelled in accordance with Directive 2006/8/EC.
To avoid risks to man and the environment, comply with the instructions for use.

In accordance with local and national regulations

Registration number UK/Eire: MAPP 15718
GefStoffV (DE): Not applicable

16. OTHER INFORMATION**Text of R Phrases mentioned in Section 3**

R36 - Irritating to eyes.

16. OTHER INFORMATION

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision: *** Indicates changes since the last revision. This version replaces all previous versions

Revision date: 03-Jul-2012

Prepared by: Regulatory Affairs Department.

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End of Safety Data Sheet