

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**Product name:** BROADSWORD**Synonyms:** 2,4D, DICAMBA, TRICLOPYR (200:85:65) G/L

UK REG NO: MAFF 9140

Use / description of product: Herbicide for agriculture use**Company name:** United Phosphorus Limited

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2. COMPOSITION / INFORMATION ON INGREDIENTS**Hazardous ingredients:** DICAMBA (ISO) 1-10%

EINECS: 217-635-6 CAS: 1918-00-9

[Xn] R22; [Xi] R41; [-] R52/53

- LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. 50-70%

EINECS: 265-199-0 CAS: 64742-95-6

[F+] R12; [Xi] R38; [N] R51/53; [Xn] R65

- TRICLOPYR BUTOXYETHYL ESTER 1-10%

CAS: 64470-66-6

[Xn] R22; [Xi] R38; [Sens.] R43; [N] R50

- 2,4 D-ISOOCTYL ESTER 10-30%

EINECS: 34704-125 CAS: 25188-26-7

[Xn] R22; [Xi] R41; [Sens.] R43; [N] R51/53

3. HAZARDS IDENTIFICATION**Main hazards:** Flammable. Harmful if swallowed. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.**4. FIRST AID MEASURES (SYMPTOMS)****Skin contact:** There may be mild irritation at the site of contact.**Eye contact:** There may be irritation and redness.**Ingestion:** Headaches or general malaise may result.

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4. FIRST AID MEASURES (ACTION)

- Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Water spray. Carbon dioxide. Dry chemical powder.
- Exposure hazards:** In combustion emits toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Avoid contact with skin, eyes, clothing and inhalation of vapours, aerosols or dusts. Wear suitable protective clothing, boots, gloves, eye and face protection.
- Environmental precautions:** Contain the spillage using bunding. Do not discharge into drains or rivers.
- Clean-up procedures:** Absorb into dry earth or sand. Transfer to a suitable container.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. When using do not eat or drink
- Storage conditions:** Keep away from Heat Store in cool, well ventilated area. Keep away from sources of ignition.
- Suitable packaging:** Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures:** Ensure there is sufficient ventilation of the area. Use all usual precautionary measures for handling chemicals.
- Respiratory protection:** Gas/vapour filter, type A: organic vapours (EN141).
- Hand protection:** Gloves (solvent-resistant).
- Eye protection:** Safety glasses with side-shields.
- Skin protection:** Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** Liquid
- Colour:** Brown
- Odour:** Characteristic odour
- Oxidising:** Non-oxidising (by EC criteria)
- Solubility in water:** Dispersible

Viscosity: Non-viscous

Boiling point/range°C: >167

Flash point°C: 41

Relative density: 1.035 @20°C

pH: 2.67

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Direct sunlight.

Materials to avoid: Oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: BROADSWORD

IHL (Triclopyr) RAT LD50 >256 mg/l

ORL(Triclopyr) RAT LD50 900 mg/kg

SKN(Triclopyr) RAT LD50 2000 mg/kg

Hazardous ingredients: DICAMBA (ISO)

ORL MUS LD50 700 mg/kg

ORL RAT LD50 1039 mg/kg

SKN RAT LD50 >1 gm/kg

- LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

ORL RAT LD50 8400 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Ecotoxicity: BROADSWORD

Fish (Solvent) 96H LC50 1 mg/l

FISH RAINBOW TROUT 96H LC50 117 mg/l

FISH(Triclopyr) 96H LC50 0.7 mg/l

Mobility: Volatile.

Persistence and degradability: Rapidly biodegradable.

Bioaccumulative potential: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: D10 Incineration on land.

Disposal of packaging: Arrange for collection by specialised disposal company.

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NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 3295	ADR Class: 3
Packing group: III	Classification code: F1
Shipping name: HYDROCARBONS, LIQUID, N.O.S. (SOLVENT)	
Labelling: 3	Hazard ID no: 30

**IMDG / IMO**

UN no: 3295	Class: 3
Packing group: III	EmS: F-E,S-D
Marine pollutant: YES	Labelling: 3 + MARINE POLLUTANT

IATA / ICAO

UN no: 3295	Class: 3
Packing group: III	Subsidiary risk: N/A
Packing instructions: 309	
Labelling: 3	

15. REGULATORY INFORMATION

Hazard symbols: Harmful.
Dangerous for the environment.



Risk phrases: R10: Flammable.
R22: Harmful if swallowed.
R36/37/38: Irritating to eyes, respiratory system and skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S2: Keep out of the reach of children.

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S13: Keep away from food, drink and animal feeding stuffs.

S20/21: When using do not eat, drink or smoke.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye / face protection.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: Risk phrases used (in section 2) for formulation ingredients are explained below.

Risk phrases used in s.2: R22: Harmful if swallowed.
R41: Risk of serious damage to eyes.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R12: Extremely flammable.
R38: Irritating to skin.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R43: May cause sensitisation by skin contact.
R50: Very toxic to aquatic organisms.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

