

Safety Data Sheet

Issue date: 10/12/2002

replaces all previous editions

REFLEX T

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

Identification of the substance or preparation

Trade Name Reflex T
 Design Code A11874A
 AGI Code 565316

Company identification

Company Syngenta Crop Protection UK Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characteristic

Formulation type Aqueous Suspension
 Use Herbicide
 Active ingredient(s) 80 g/l fomesafen
 400 g/l terbutryn

Hazardous Component(s)

CAS	Name	Concentration (g/l)	Hazard Symbol	Risk Phrases (R)
72178-02-0	Fomesafen	80	Xn	22
886-50-0	Terbutryn	400	N	50/53
57-55-6	Propylene Glycol	<50		
2634-33-5	1,2-benzisothiazolin-3-one	<5	Xn, N	22, 38, 41, 43, 50

3. HAZARDS IDENTIFICATION

Harmful if swallowed. May cause sensitisation by skin contact. A severe irritant to eyes. Slightly irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

First-Aid Measures

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- Eye Contact:** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
- Ingestion:** If swallowed seek medical advice immediately and show the container, label or this data sheet, if possible. Do not induce vomiting.
- Skin Contact:** Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimize contact with skin. Contaminated clothing should be laundered before re-issue.
- Inhalation:** Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.

Further Medical Instructions

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Keep fire exposed containers cool by spraying with water.

Extinguishing media

Suitable Extinguishing Media: For small fires use foam, carbon dioxide or dry powder extinguishant. For large fires use foam or water fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Fire Fighting Protective Equipment: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls. Absorb spillages with sand, earth or any suitable absorbent material. Transfer to a container for disposal. Wash spillage area with water. Washings must be prevented from entering surface water drains.

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

Handling

Read the label before use. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

Storage

Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs.

Storage Life: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits, HSE EH40/2002:

Propane-1,2-diol (Propylene glycol)

Total (vapour & particulates) 8 hr TWA 150 ppm 474 mg/m³.

Particulates 8 hr TWA 10 mg/m³.

Internal exposure limit, SIEL (Syngenta internal exposure level):

(Fomesafen)

LTEL 8 hr TWA 2 mg/m³.

Not applicable to field use.

Personal protective equipment:

When using this product refer to the label for details.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	White-cream.
Physical State/Form:	Liquid.
Melting Point:	Not available.
Boiling Point:	Not available.
Flash-Point:	Does not flash.
Odour:	Not available.
Auto Ignition Temperature (°C):	Not available.
Oxidizing Properties:	Not applicable.
Explosive Properties:	Not applicable.
Vapour Pressure (mm Hg):	Not available.
Partition Coefficient:	Not available.
Density:	1.088 g/cm ³ (20 °C)
pH Value:	7.5 – 8.5
Solubility with water:	Miscible.

10. STABILITY AND REACTIVITY

Hazardous Decomposition Product(s):

Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

This health hazard assessment is based upon information available on similar formulations.

Acute Oral Toxicity LD50:	1000 to 2000 mg/kg (rat) Harmful if swallowed.
Acute Dermal Toxicity LD50:	> 4000 mg/kg (rat) (calculated)
Skin Contact:	Slight irritant (rabbit).
Skin Sensitisation:	Moderate skin sensitiser (animal tests).
Inhalation:	Unlikely to cause harmful effects under normal conditions of handling and use.
Eye Contact:	Irritant (rabbit).
Long Term Exposure:	No long-term risks to man are associated with the normal handling and use of this material.

12. ECOLOGICAL INFORMATION

Toxicity	Toxic to fish
Fish LC ₅₀ , 96h Static	
Bluegill Sunfish	7 mg/l
Rainbow trout	5.6 g/l

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GCPF, 1987. Empty containers should be washed and discarded. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Special Information: Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.

Rail / Road (RID / ADR)	Class	UN no.	Packaging Group	Kemmler Index
Proper Shipping Name	9	3082	III	90
		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (FOMESAFEN AND TERBUTRYN MIXTURE)		

15. REGULATORY INFORMATION

EU-Classification

Hazard Symbol	Xn	Harmful
	N	Dangerous for the environment
Risk Phrases (R)	22	Harmful if swallowed.
	43	May cause sensitisation by skin contact.
	51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases (S)	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using do not eat, drink or smoke.
	24	Avoid contact with skin.
	35	This material and its container must be disposed of in a safe way.
	36/37	Wear suitable protective clothing and gloves
	57	Use appropriate containment to avoid environmental contamination.
Special Label (SO)	53	Do not re-use container, keep tightly closed in a safe place

16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Based upon SDS release 1294 Revision: 2, with DPD update.

Product Approval number: MAFF 08884.

DPD update with major changes several areas especially in Section 15.

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.