

SAFETY DATA SHEET

7/2/01

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

Dow AgroSciences Limited	Latchmore Court Brand Street Hitchin Herts SG5 1NH
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Emergency Telephone Number:	UK: 0870 600 2999
	Eire: 01 821 4999

Poisons Information Centre:	UK: 0121 507 5588/5589
	Eire: 01 837 9964/66

Product Name: **SICKLE* HERBICIDE : MAFF 05187**

LV70: 04318

Issue Date: June 95

Ref: H8918

Revised: Nov. 00 (Section(s) 1, 3, 13 & 15)

2. COMPOSITION/INFORMATION ON INGREDIENTS**Components contributing to hazard:**

		CAS	EINECS
Fluroxypyr 1-methylheptyl ester	216 g/L	081406-37-3	279-752-9
Bromoxynil octanoate	437 g/L	001689-99-2	216-885-3
Solvents plus inert ingredients	Balance		
Composition Code	EF0851		

3. HAZARDS IDENTIFICATION

Flammable. Harmful if swallowed. Irritating to eyes and skin. Harmful: may cause lung damage if swallowed. Dangerous to fish or other aquatic life. Harmful to bees.

* SICKLE Trademark of Dow AgroSciences

SAFETY DATA SHEET

7/2/01

SICKLE* HERBICIDE : MAFF 05187

4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Ingestion

Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by an attending physician.

Eye Contact

Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

Skin Contact

Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Get medical attention if irritation persists.

Inhalation

Remove to fresh air. Consult a physician.

Note to Physician

Likely symptoms of ingestion are nausea, vomiting, and diarrhoea. No specific antidote. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Water fog or fine spray. Carbon dioxide. Dry chemical. Foam.

Hazardous Combustion Products

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

Additional Information

Contains petroleum derivative solvent - will burn. Violent eruption of containers may occur under fire conditions. Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

SAFETY DATA SHEET

7/2/01

SICKLE* HERBICIDE : MAFF 05187

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate safety clothing and eye/face protection (see Section 8).

Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

Methods of Cleaning Up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

Additional Information

Eliminate all ignition sources.

7. HANDLING AND STORAGE

Handling

Avoid eye and skin contact. Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Fluroxypyr 1-methylheptyl ester: Dow AgroSciences IHG is 10 mg/m³.
Supplier recommendation for solvent is 50 ppm

Engineering Controls

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection

For most conditions, no respiratory protection should be needed. However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator.
For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

SAFETY DATA SHEET

7/2/01

SICKLE* HERBICIDE : MAFF 05187

Hand/Skin Protection

For brief contact, no precautions other than clean body-covering clothing and impervious gloves should be needed. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

Eye/Face Protection

Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: dark brown
Rel. density (water=1)	: 1.16 approx. (20 deg.C)
Water solubility	: emulsifiable
Flash point	: 54 deg.C (PMCC)

10. STABILITY AND REACTIVITY**Chemical Stability**

Is stable under normal storage conditions.

Conditions to Avoid

Avoid high temperatures (at or near flash point), open flame, sparks and direct sunlight. Closed containers may explode due to pressure build-up when subjected to excessive heat or intense fire.

Materials to Avoid

Strong basic, acidic or oxidising materials.

Hazardous Decomposition Products

None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION**Ingestion**

Single dose oral toxicity is considered to be moderate.
The oral LD50 for rats is >500 mg/kg.

Skin Contact

The dermal LD50 for rats is >2000mg/kg.
A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.
Short single exposure may cause skin irritation.

Eye Contact

May cause moderate eye irritation.

SAFETY DATA SHEET

7/2/01

SICKLE* HERBICIDE : MAFF 05187

Inhalation

No adverse effects anticipated by this route of exposure incidental to proper handling.

12. ECOLOGICAL INFORMATION**Persistence and Degradability**

Assessment largely or completely based on data for active ingredient.

Fluroxypyr 1-methylheptyl ester:

Rapidly hydrolysed to the parent acid, which undergoes further degradation. Half-life of the parent acid in soil is dependent on conditions and is approximately 14-56 days. There is no evidence of any significant leaching, therefore it is unlikely to contaminate ground water.

Aquatic Toxicity

Based on data for similar formulation.

For aquatic organisms, material is expected to be Very Toxic.

Avian Toxicity

Assessment largely or completely based on data for active ingredient.

Fluroxypyr 1-methylheptyl ester:

Material is practically non-toxic to birds on an acute basis (LD50 >2000mg/kg).

Bromoxynil Octanoate:

Material is moderately toxic to birds on an acute basis (50mg/kg <LD50 <500mg/kg).

13. DISPOSAL CONSIDERATIONS

Dangerous to fish or other aquatic life. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

SAFETY DATA SHEET

7/2/01

SICKLE* HERBICIDE : MAFF 05187

14. TRANSPORT INFORMATION**Road, Rail & Barge**

Proper shipping name: 1993 , FLAMMABLE LIQUID, N.O.S. (CONTAINS
PETROLEUM DISTILLATE)

Truck - ADR Loaded	: 3-31c	Empty	: 3-71	Label	: 3
Rail - RID Loaded	: 3-31c	Empty	: 3-71	Label	: 3
		Filling %		Packed	:
		Filling %		Bulk	:
		Filling Kg/L		(Gas)	:
Kemler Code	: 30	UN Number			: 1993
Tremcard Nr. CEFIC	: 30G35				
Tremcard Nr. Other	:				
Barge - ADNR Loaded	: 3-31c	Empty	: 3-71	Label:	3
Ship Type	:	CATG.	:		

Sea

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Contains Petroleum
Distillate and Bromoxynil 37.67% W/W)

Sea - IMO/IMDG Class:	3.3	UN Nr	: 1993	Label:	3
Packing Group	: III	EMS	: 3-07	MFAG	: 311
Container Type	:	Marine Pollutant			: Y (Y/N)
Test Pressure (bar)	: .5	Filling %		Packed	:
		Filling %		Bulk	:
		Filling Kg/L		(Gas)	:

Air

Proper shipping name: FLAMMABLE LIQUID, N.O.S.

Air-ICAO/IATA Class	: 3	UN Nr	: 1993	Label:	3
Sub Class	:				
Packing Group	: III	Pack Instr. Passenger			: 309
		Pack Instr. Cargo			: 310

Remarks : Sample shipment not allowed by mail.

15. REGULATORY INFORMATION

Hazard Symbol : Xn - Harmful

Risk Phrases : Flammable. (R10)
Harmful if swallowed. (R22)
Irritating to eyes and skin. (R36/38)
Harmful: may cause lung damage if swallowed. (R65)

SAFETY DATA SHEET

7/2/01

SICKLE* HERBICIDE : MAFF 05187

Safety Phrases : Keep out of reach of children. (S2)
Keep away from food, drink and animal feeding stuffs.
(S13)
When using do not eat, drink or smoke. (S20/21)
Do not breathe spray. (S23)
Wear suitable gloves and eye/face protection. (S37/39)
If you feel unwell, seek medical advice (Show the
label where possible). (S44)
If swallowed, do not induce vomiting: seek medical
advice immediately and show this container or label.
(S62)

16. OTHER INFORMATION

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made.