

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: **Holster XL**
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.	2,4-D ethyl hexyl ester
2.	Dicamba
3.	Fluroxypyr-meptyl
4.	Solvent naphtha (petroleum), heavy arom

No.	CAS No.	EC No.	R Phrases	Concentration	Classification
1.	1928-43-4	217-673-3	R22R43, R50/53	450g/litre	Xn,
2.	001918-00-9	607-043-00-X	R22,R41,R52/ 53	52.5 g/litre	Xn
3.	081406-37-3	279-752-9	R50/53	155g/litre	N
4.	06472-94-5	265-198-5	R65	306g/litre	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 if swallowed.
 Harmful: may cause lung damage if swallowed.
 Irritating to skin and eyes.

Environmental: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Inhalation:	Unlikely under normal circumstances
Skin Contact:	Wash skin with soap and clean water thoroughly for 15 minutes. Remove and wash contaminated clothing before reuse. Seek medical advice if irritation develops.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops convey to a hospital Accident/Emergency Department.
Ingestion:	Do not induce vomiting. Do not give emetics. Wash out mouth with clean water. Convey patient to a hospital Accident/Emergency Department.
Medical Information:	Note to Doctor: Ingestion may cause nausea, diarrhoea and vomiting. Initial treatment should include gastric lavage and then be symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide, dry chemical powder, foam or water spray.
Specific fighting measures	Evacuate personnel to a safe area. Keep personnel away from and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Run-off from fire control may be a pollution hazard. Cool tank/container with water spray.
Special Hazards:	Will burn if involved in a fire and toxic fumes may be evolved
Protective Equipment:	Self-contained breathing apparatus and protective clothing

6. ACCIDENTAL RELEASE MEASURES

Precautions:	Prevent from entering watercourses or drains. Inform local water plc if spillage enters drains and the Environmental Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland) or the Environmental and Heritage service (Northern Ireland) if the product enters surface or ground waters. Keep people and animals away.
Protective Equipment	Overalls, impervious gloves, rubber boots, face shield or goggles.
Containment	Contain spillages immediately with sufficient absorbent material to absorb all liquid. Sweep into suitable container and store in a safe place until disposal.
Disposal	Dispose of contaminated materials as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on

Farms and Holdings”.

7. HANDLING AND STORAGE

Handling:

Handling: Avoid breathing vapours or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage:

Store in a secure, cool, dry, well-ventilated place away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautions:

Wear suitable protective clothing (coveralls) suitable protective gloves and face protection (face shield) when handling the concentrate.

Wear suitable protective clothing (coveralls) when applying by vehicle mounted equipment.

Wear suitable protective clothing (coveralls), suitable protective gloves, rubber boots and face protection (face shield) when handling contaminated surfaces or applying by hand held equipment

Wash concentrate from skin and eyes immediately. Do not breathe spray. When using do not eat drink or smoke. Wash hands and exposed skin before meals and after work.

If you fell unwell seek medical advice (show the label where possible).

Harmful to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used container.

Keep away from food, drink and animal feeding stuffs.

Keep out of reach of children.

Keep in original container, tightly closed in a safe place. Wash out container thoroughly, empty washings into spray tank and

Occupational exposure hazards: dispose of safely.
None specified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear amber solution
Analysis 2,4-D 285 g/litre, dicamba 52.5 g/litre, fluroxypyr 105 g/litre
Density 1.076 g/ml
Flash point 62 °C

10. STABILITY AND REACTIVITY

Chemical Stability: Is stable under normal conditions.
Conditions to Avoid: Extreme temperatures
Materials to Avoid: None reasonably foreseeable
Hazardous Decomposition Products: Toxic fumes may be evolved if involved in a fire.

11. TOXICOLOGICAL INFORMATION

Ingestion: Low toxicity if swallowed. The oral LD50 for rats is 1834mg/kg.
Acute dermal LD50 >4000 mg/kg (rats)
Skin Sensitisation: Non-sensitising
Eye irritation Irritant
Skin irritation Irritant
Irritancy respiratory system Non irritating
Chronic effects None

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Harmful to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used container.
Persistence and Degradability: Fluroxypyr – DT50 in laboratory soils = 5-9 days
2,4-D – rapidly degraded in aerobic soils DT50 < 7 days
Dicamba – rapidly degraded in aerobic soils DT50 < 14 days
Mobility Fluroxypyr - moderately mobile
2,4-D – rapid degradation prevents downward movement
Dicamba - moderately mobile

13. DISPOSAL CONSIDERATIONS

Follow the guidance on the disposal of pesticides as given in the MAFF/HSE “Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings”.

14. TRANSPORT INFORMATION

Road/Rail Classification:	Proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (contains 285 g/litre 2,4-D, 52.5 g/litre dicamba and 105 g/litre fluroxypyr). Truck/Rail ADR/RID : 9 UN Number : 3082 Packing Group : III Haz ID: 90
Sea Classification:	Proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (contains 285 g/litre 2,4-D, 52.5 g/litre dicamba and 105 g/litre fluroxypyr). Marine Pollutant. Sea - IMO/IMDG Class: 9 UN Nr : 3082 Packing Group : III Marine Pollutant : Y (Y/N)
Air Classification:	Proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (contains 285 g/litre 2,4-D, 52.5 g/litre dicamba and 105 g/litre fluroxypyr). Marine Pollutant. Air-ICAO/IATA Class : 9 UN Nr : 3082 Packing Group : III

15. REGULATORY INFORMATION

Xn **N**

Hazard Symbol : Xn - Harmful
N - Dangerous for the Environment

R- PHRASES:

- R22** - Harmful if swallowed
- R36/38** - Irritating to eyes and skin
- R52/53** - Harmful to aquatic organisms, may cause long-term adverse effects to the aquatic environment
- R65** - Harmful may cause lung damage if swallowed
- R50/53** - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S- PHRASES:

- S35** - This material and its container must be disposed of in a safe way
- S37** -Wear suitable gloves
- S57** - Use appropriate containment to avoid environmental contamination

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

16. OTHER INFORMATION

Revision 0 Date Prepared: 09/02/08

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.