



ALISTER OD189 4X5L BOT IE

Version 1 / IRL
102000010802

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Revision Date: 29.01.2007
Print Date: 29.01.2007

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

Product information

Trade name ALISTER OD189 4X5L BOT IE
Product code (UVP) 06268102
Usage Herbicide
Company Bayer CropScience
Bayer Ltd
Chapel Lane, Swords
CO Dublin
Ireland
Telephone +353-1-8132222
Telefax +353-1-8132288
Emergency telephone number 1800-409-399

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Oil dispersion (OD)
Diflufenican 150 g/l, Mesosulfuron-methyl 9 g/l, Iodosulfuron-methyl-sodium 3 g/l, Mefenpyr-diethyl 27 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Diflufenican	83164-33-4		R52/53	15.00
Mesosulfuron-methyl, sodium salt	208465-19-4	N	R50/53	1.00
Iodosulfuron-methyl-sodium	144550-36-7	N	R50/53	0.30
Polyglycol ether		Xi, N	R38, R41, R43, R51/53	>= 10.00 - <= 25.00
Solvent Naphtha (petroleum), light aromatic	64742-95-6	Xn, N	R10, R37, R51/53, R65, R66, R67	<= 8.00
Sodium dioctyl sulphosuccinate	577-11-7 209-406-4	Xi	R36/38	>= 10.00 - <= 20.00

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Irritating to skin.
Risk of serious damage to eyes.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES



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Inhalation

Keep patient warm and at rest. Move to fresh air. Call a physician or poison control center immediately.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

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

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

Notes to Physician

Symptoms

Local:, Irritation, Systemic:, To date no symptoms are known.

Treatment

Initial treatment: symptomatic.
If swallowed, in the event of vomiting, minimise the risk of product entering the lungs.
In the event of a mouthful or more being ingested, the following measures should be considered:
Gastric lavage, then charcoal (carbo medicalis) and sodium sulfate.
Monitoring of: kidney, liver and red blood cell count.
Monitoring of respiratory and cardiac functions.
Elimination by dialysis (forced alkaline diuresis).

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Extinguishing media which must not be used for safety reasons

High volume water jet

Specific hazards during fire fighting

In the event of fire the following can be released:
carbon monoxide (CO)
nitrogen oxides (NO_x)
Sulphur oxides
Hydrogen fluoride
hydrogen chloride (HCl)
hydrogen iodide (HI)

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.
Whenever possible, contain fire-fighting water by diking area with sand or earth.
Do not allow run-off from fire fighting to enter drains or water courses.



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep people away from and upwind of spill/leak.
Use personal protective equipment.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.
If the product contaminates rivers, lakes or drains inform respective authorities.
Inform appropriate authorities immediately if contamination occurs.

Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Additional Advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling
Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers
Store in original container.
Keep tightly closed in a dry, cool and well-ventilated place.
Keep away from heat.

Advice on common storage
Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage period	6 Months
Storage temperature	0 - 30 °C
Other data	Do not store at a temperature above 40 °C.

Suitable materials

Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)
Coextruded containers with an internal barrier layer made of polyamide (PA).
** Containers of 20 l and above: HDPE (high density polyethylene). **

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional Advice

Additional Advice
observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon



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mixes with > 25% aromatics TRGS 901, No. 72).

Engineering measures

Provide appropriate exhaust ventilation at machinery.

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand Protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection Wear standard coverall and type 6 suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hygiene measures

When using, do not eat, drink or smoke.
Wash hands and face before breaks and immediately after handling the product.
Handle in accordance with good industrial hygiene and safety practice.

Protective measures

Avoid contact with skin and eyes.
Do not inhale aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	beige
Odour	aromatic

Safety data

pH	8.5 - 10.0 at 10 % (23 °C)
Flash point	> 110 °C
Autoignition Temperature	375 °C



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Density	approx. 1.01 g/cm ³ at 20 °C
Water solubility	dispersible
Viscosity, dynamic	150 - 350 mPa.s at 20 °C
Viscosity, dynamic	100 - 250 mPa.s at 20 °C
Viscosity, kinematic	169 mm ² /s at 40 °C Shearstress of 20/sec
Surface tension	28.9 mN/m at 40 °C
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
Hazardous Reactions	None known. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 2,000 mg/kg
Acute Dermal Toxicity	LD50 (rat) > 2,000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	Severe eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test

Further information
Information given is based on data obtained from similar substances.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to Fish	LC50 (Rainbow trout (Oncorhynchus mykiss)) 13.4 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (Daphnia magna)) 20.2 mg/l Exposure time: 48 h

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Toxicity to algae (Pseudokirchneriella subcapitata) 10 µg/l
Exposure time: 72 h

Further information on ecology

Additional ecological information

Information given is based on data obtained from similar substances.

13. DISPOSAL CONSIDERATIONS**Product**

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-No.	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM SOLUTION)

IMDG

UN-No.	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM SOLUTION)

IATA

UN-No.	3082
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IODOSULFURON-METHYL SODIUM SOLUTION)

**ALISTER OD189 4X5L BOT IE**Version 1 / IRL
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Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Iodosulfuron-methyl-sodium
- Mesosulfuron-methyl, sodium salt
- Polyglycol ether

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases(s)

R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

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.
S57	Use appropriate container to avoid environmental contamination.

The classification/labelling information below is that which has been approved under 'The European Communities (Authorization, placing on the market, use and control of Plant Protection products) Regulations 2003' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases(s)

R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S 2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feedingstuffs.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39	Wear eye/face protection.
S57	Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.
Contains polyglycol ether. May produce an allergic reaction.

Further information

WHO-classification: III (Slightly hazardous)



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16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 2:

R10	Flammable.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.