

**ATLANTIS WG**Version 2 / GB
102000011354

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Revision Date: 15.12.2006

Print Date: 14.07.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name ATLANTIS WG
Product code (UVP) 06402585
Usage herbicide
Company Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain

Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Emergency telephone number 0800-220876 (UK 24 hr)
+44(0)1603-242424 (Overseas 24 hr)

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Water dispersible granules (WG)

Mesosulfuron-methyl (3% w/w), Iodosulfuron-methyl sodium (0,6% w/w), Mefenpyr-diethyl (9% w/w)

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Mesosulfuron-methyl	208465-21-8	N	R50/53	3.00
Iodosulfuron-methyl-sodium	144550-36-7	N	R50/53	0.60
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn, N	R51/53, R65, R66	> 5.00 - < 25.00
Polyglycol ether		Xi, N	R38, R41, R43, R51/53	> 5.00 - < 25.00
Alkylated naphthalene sulfonate, formaldehyde polymer, sodium salt		Xi	R36/38	> 5.00 - < 25.00
Synthetic amorphous silica	112926-00-8			> 5.00 - < 25.00
Kaolin	1332-58-7			> 25.00 - < 50.00

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.



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4. FIRST AID MEASURES

Inhalation

Call a physician or poison control center immediately. Move to fresh air.

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. Obtain medical attention.

Notes to Physician

Symptoms

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

Treatment

Initial treatment should be symptomatic and supportive.
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.
Elimination by dialysis (forced alkaline diuresis).

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

water spray
foam
dry powder
carbon dioxide (CO₂)

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)
Sulphur oxides
hydrogen chloride (HCl)
hydrogen iodide (HI)
cyanides
nitrogen oxides (NO_x)

Special protective equipment for fire-fighters

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

Further information

Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES



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Personal Precautions

Use personal protective equipment.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

Methods for Cleaning Up

Use mechanical handling equipment.

Keep in suitable, closed containers for disposal.

Avoid dust formation.

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.

Avoid dust formation.

Advice on protection against fire and explosion

Care should be taken to avoid formation of dust from abraded granules.

Storage

Requirements for storage areas and containers

Store in original container.

Keep tightly closed in a dry, cool and well-ventilated place.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Storage period 24 Months

Storage temperature 0 - 30 °C

Other data

Storage temperature should ideally lie between 0 and 30 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

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).
aluminium composite film (min. 0,007 mm Aluminium)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

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Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Synthetic amorphous silica (Inhalable dust.)	112926-00-8	10 mg/m ³ (TWA)	2005	EH40 WEL
Synthetic amorphous silica (Respirable dust.)	112926-00-8	4 mg/m ³ (TWA)	2005	EH40 WEL
Synthetic amorphous silica (Inhalable dust.)	112926-00-8	6 mg/m ³ (TWA)	2005	EH40 WEL
Synthetic amorphous silica (Respirable dust.)	112926-00-8	2.4 mg/m ³ (TWA)	2005	EH40 WEL
Kaolin (Respirable dust.)	1332-58-7	2 mg/m ³ (TWA)	2005	EH40 WEL

Additional Advice

observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72).

Engineering measures

See section 7; no measures exceeding those mentioned are necessary.

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 conforming to EN149FFP1. 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 5 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.
Protective measures	Do not breathe dust. Avoid contact with skin and eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form	water-dispersible granules
Colour	brown
Odour	aromatic

Safety data

pH	8.5 - 9.5 at 10 % (23 °C)
Autoignition Temperature	> 409 °C
Bulk Density	approx. 672 - 788 g/l
Water solubility	dispersible
Impact Sensitivity	not impact-sensitive
Combustion number	CN2 Short flaring without spreading
Explosivity	Not explosive
Dust content	almost dustfree

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
Hazardous Decomposition Products	No hazardous decomposition products known.
Hazardous Reactions	None known. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 2,000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 3.25 mg/l Exposure time: 4 h Highest attainable concentration.
Acute Dermal Toxicity	LD50 (rat) > 5,000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	Severe eye irritation. (rabbit)
Sensitization	Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

Further information

Information given is based on data obtained from similar substances.

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12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 7.5 g/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 13.1 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) > 10 mg/l Exposure time: 72 h
Toxicity to algae	EC50 (<i>Lemna gibba</i> (duckweed)) 45.8 µg/l Exposure time: 7 d

Further information on ecology

Additional ecological information

Information given is based on data obtained from similar substances.

13. DISPOSAL CONSIDERATIONS**Product**

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

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.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

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	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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(IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

IMDG

UN-No	3077
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

IATA

UN-No	3077
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

UK 'Carriage' Regulations

UN-No	3077
Labels	9
Packaging group	III
Hazard no.	90
Emergency action code	2Z
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

|| Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Mesosulfuron-methyl
- Iodosulfuron-methyl-sodium

Symbol(s)

**|| Xi
|| N**

**Irritant
Dangerous for the environment**

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R-phrase(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-phrase(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.

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)

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

R36/38	Irritating to eyes and skin.
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.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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