

**SEKATOR**Version 3 / GB
102000011396

1/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

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

Trade name	SEKATOR
Product code (UVP)	06372872
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
Responsible Department	Email: ukinfo@bayercropscience.com
Emergency telephone no.	0800-220876 (UK 24 hr) +44(0)1603-242424 (Overseas 24 hr)

2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

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

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

Water dispersible granules (WG)
Amidosulfuron/Iodosulfuron-methyl-sodium/Mefenpyr-diethyl 5.0:1.25:12.5 % w/w

Hazardous components

Name	CAS-No. / EC-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Amidosulfuron	120923-37-7	N	R50/53	5.00
Iodosulfuron-methyl-sodium	144550-36-7	N	R50/53	1.25
Mefenpyr-diethyl	135590-91-9			12.50
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn, N	R65, R66, R51/53	> 2.50 - < 25.00
Sulphonated aromatic polymer, sodium salt		Xi	R36/38	> 1.00 - < 20.00
Olefin sulphonate, sodium salt	68439-57-6	Xi	R38, R41	> 1.00 - < 5.00

**SEKATOR**Version 3 / GB
102000011396

2/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

	270-407-8			
Kaolin	1332-58-7 310-194-1			> 1.00
Amorphous silica	63231-67-4			>= 1.00

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**General advice**

- Move out of dangerous area. Place and transport victim in stable position (lying sideways).
- Remove contaminated clothing immediately and dispose of safely.

Skin contact

- Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

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

Notes to physician**Treatment**

- Treat symptomatically.
- Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.
- There is no specific antidote.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which shall not be used for safety reasons

- High volume water jet

Specific hazards during firefighting

- In the event of fire the following may be released:
 - Hydrogen chloride (HCl)
 - Hydrogen cyanide (hydrocyanic acid)
 - Hydrogen iodide (HI)
 - Carbon monoxide (CO)
 - Sulphur oxides
 - Nitrogen oxides (NO_x)

Special protective equipment for fire-fighters

- In the event of fire and/or explosion do not breathe fumes.
- In the event of fire, wear self-contained breathing apparatus.



SEKATOR

Version 3 / GB
102000011396

3/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

Further information

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

- || Avoid contact with spilled product or contaminated surfaces.
- || 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.
- || Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Ensure adequate ventilation.

Advice on protection against fire and explosion

- || No special precautions required.

Storage

Requirements for storage areas and containers

- || Keep containers tightly closed in a dry, cool and well-ventilated place.
- || Store in original container.
- || Store in a place accessible by authorized persons only.
- || Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials

FIBC-PP (Polypropylen; approx.1000 l)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment))

**SEKATOR**Version 3 / GB
102000011396

4/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Amidosulfuron	120923-37-7	5.5 mg/m ³ (TWA)		OES BCS*
Iodosulfuron-methyl-sodium	144550-36-7	1 mg/m ³ (TWA)		OES BCS*
Kaolin (Respirable dust.)	1332-58-7	2 mg/m ³ (TWA)	2007	EH40 WEL
Amorphous silica (Inhalable dust.)	63231-67-4	6 mg/m ³ (TWA)	2007	EH40 WEL
Amorphous silica (Respirable dust.)	63231-67-4	2.4 mg/m ³ (TWA)	2007	EH40 WEL

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

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).

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 a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 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 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

- || Avoid contact with skin, eyes and clothing.
- || Keep working clothes separately.
- || Wash hands before breaks and immediately after handling the product.
- || Remove soiled clothing immediately and clean thoroughly before using again.
- || Garments that cannot be cleaned must be destroyed (burnt).

**SEKATOR**Version 3 / GB
102000011396

5/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	granular
Colour	beige
Odour	aromatic

Safety data

pH	7.5 - 9.0 at 1 % (23 °C) (deionized water)
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Flammability (solid, gas)	The product is not flammable.
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Autoignition temperature	The product is not self-ignitable.
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Minimum Explosion Concentration	ca. 100 mg/m ³
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Dust explosion Kst number	68 barm/s
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Dust explosion class	St1
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Bulk density	718 - 842 kg/m ³
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Water solubility	dispersible
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Combustion number	CN3 Local combustion without spreading
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Oxidizing properties	No oxidizing properties
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Explosivity	Not explosive
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Dust content	nearly dust-free
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10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight.
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Thermal decomposition	> 250 °C Exothermic decomposition.
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Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.
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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD ₅₀ (rat) > 5,000 mg/kg Test conducted with a similar formulation.
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SEKATOR

Version 3 / GB
102000011396

6/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

Acute inhalation toxicity	Not relevant because of low dust formation. Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) > 2,000 mg/kg Test conducted with a similar formulation.
Skin irritation	No skin irritation (rabbit) Test conducted with a similar formulation.
Eye irritation	Severe eye irritation. (rabbit) Test conducted with a similar formulation.
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test Test conducted with a similar formulation.

12. ECOLOGICAL INFORMATION

Biodegradability	Not readily biodegradable.
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Ecotoxicity effects

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 13 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea (<i>Daphnia magna</i>)) 3.2 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (<i>Pseudokirchneriella subcapitata</i>) 1.08 mg/l Exposure time: 72 h
Toxicity to aquatic plants	EC50 (<i>Lemna gibba</i> (duckweed)) 6.9 µg/l Exposure time: 7 d

Further information on ecology

Additional ecological information
The ecological data refer to a similar formulation.

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).

**SEKATOR**Version 3 / GB
102000011396

7/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

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/ADN**

UN-Number	3077
Labels	9
Packaging group	III
Hazard no.	90
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM/SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways.
Please refer to the manufacturer for further information.

IMDG

UN-Number	3077
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM/SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

IATA

UN-Number	3077
Labels	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM/SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

UK 'Carriage' Regulations

UN-Number	3077
Labels	9
Packaging group	III



SEKATOR

Version 3 / GB
102000011396

8/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

Hazard no.	90
Emergency action code	2Z
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL SODIUM/SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC MIXTURE)

15. REGULATORY INFORMATION

This product has been classified/labelled in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009: CHIP 4 and any subsequent amendments which apply in both the United Kingdom and Northern Ireland.

II Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- Amidosulfuron
- Iodosulfuron-methyl-sodium
- Mefenpyr-diethyl
- Solvent Naphtha (petroleum), heavy aromatic

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrase(s)

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

To avoid risks to man and the environment, comply with the instructions for use.

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.

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3

R36/38	Irritating to eyes and skin.
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.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.



SEKATOR

Version 3 / GB
102000011396

9/9

Revision Date: 11.01.2012

Print Date: 01.06.2012

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.