

**JAVELIN GOLD**

Version 1
Revision Date 16.07.2003

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

Trade name : JAVELIN GOLD
 Product code : TADS6379
 Product code : 30097B
 Specification : 12484
 Usage : herbicide
 Company : Bayer CropScience Limited
 Hauxton
 Cambridge
 Cambridgeshire CB2 5HU
 United Kingdom
 Telephone : +44(0)1223 870312
 Telefax : +44(0)1223 872142
 Emergency telephone number : 0800-220876 (UK only)
 +44(0)1223-870312

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

Suspension concentrate (=flowable concentrate)(SC), contains:
 Isoproturon/Diflufenican 500:20 g/l

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases(s)	Concentration [%]
Isoproturon	34123-59-6	Xn, N	R22 R40 R50/53	46.00
Diflufenican	83164-33-4		R52/53	1.80
Ethanediol	107-21-1	Xn	R22	> 1.00 - < 5.00

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

Limited evidence of a carcinogenic effect.
 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice : Remove contaminated, soaked clothing immediately and

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dispose of safely.

- Inhalation : Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.
- Skin contact : Take off all contaminated clothing immediately. Wash off with soap and water. If symptoms persist, call a physician.
- Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.
- Ingestion : Do not induce vomiting. Rinse mouth thoroughly with water. Give small amounts of water to drink. Keep at rest. Obtain medical attention.

Notes to physician

- Symptoms : Local: none
- Symptoms : Systemic: The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.
- Risks : Danger of formation of methaemoglobin.
More severe effects if alcohol is consumed.
- Treatment : Local treatment:
Initial treatment should be symptomatic and supportive.
- Treatment : Systemic treatment:
In the event of a mouthful or more being ingested, the following measures should be considered:
Monitoring of: cardiac, liver and red blood cell count.
Observe specific parameters: methaemoglobinaemia and serum potassium.
ECG - monitoring (Electrocardiogram)
If ingested, irrigate the stomach using activated charcoal in addition.
If methaemoglobin level is less than 20%, administer 100% oxygen. If methaemoglobin level is greater than 20% treat with 100% oxygen and slowly give 1% Methylene Blue/Toluidine Blue solution intravenously, 1-2 mg/kg body weight.
Contraindications: alcohol
Oxygen, if needed.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : water spray
alcohol-resistant foam
dry chemical
carbon dioxide (CO₂)
- Extinguishing media which must not be used for safety reasons : Product itself is non-combustible; fire extinguishing measures to suit surroundings.



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- Specific hazards during fire fighting : In case of fire the evolution of dangerous gases is possible.
- Special protective equipment for fire-fighters : In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.
- 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 bunding area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.
- Environmental precautions : Keep people and animals away. Do not discharge into the drains/surface water/groundwater. 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 : Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material). Transfer collected material to heavy duty plastic drums and keep safe for disposal. Clean contaminated floors and objects thoroughly with water and detergents, 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. Check also for any local site procedures.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Provide good ventilation of working area (local exhaust ventilation if necessary).
- Advice on protection against fire and explosion : No special precautions required.

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- Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Store in a place accessible by authorized persons only.
- Further information on storage conditions : Keep away from direct sunlight. Protect against frost.
- Storage temperature : 0 - 30 °C
- Suitable materials : Keep in original packaging, tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Ethanediol	107-21-1	10 mg/m3 (TWA)	2001	EH40 OES
		60 mg/m3 (TWA)	2001	EH40 OES
		125 mg/m3 (STEL)	2001	EH40 OES
		52 mg/m3 (TWA)	05 2001	EU ELV
		104 mg/m3 (STEL)	05 2001	EU ELV

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Chemical resistant gloves
PVC gloves
nitrile gloves
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Light protective clothing, PVC
PVC boots
- Hygiene measures : When using, do not eat, drink or smoke.
Remove soaked clothing immediately.
Remove soiled clothing immediately.
Clean hands and face at work intervals and after work.
Work in an adequately ventilated room.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

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Form : Liquid
 Colour : white opaque

Safety data

pH : 6 - 8
 Note: Determined in the undiluted form

Density : ca. 1.09 g/cm³ at 20 °C

Water solubility : Note: Miscible

Other information : The product is not combustible.

10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Extremes of temperature and direct sunlight.

Materials to avoid : None

Hazardous reactions : No hazardous reactions when stored and handled according to prescribed instructions.
 Note: 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 : rabbit
 Result: No skin irritation

Eye irritation : rabbit
 Result: No eye irritation

Sensitization : guinea pig
 Result: non-sensitizing
 Method: OECD Test Guideline 406, Buehler test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : LC50: 74.8 mg/l
 Rainbow trout (*Oncorhynchus mykiss*)
 Exposure time: 96 h

Toxicity to fish : LC50: 32 mg/l
Salmo spec.
 Exposure time: 96 h

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Toxicity to daphnia : EC50: > 100 mg/l
Water flea (Daphnia magna)
Exposure time: 48 h

Toxicity to algae : EC50: 0.0096 mg/l
Selenastrum capricornutum
Exposure time: 72 h

Further information on ecology

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

13. DISPOSAL CONSIDERATIONS

Product : In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority
Can be landfilled or incinerated, when in compliance with local regulations.
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste.
Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

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 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOPROTURON SOLUTION)

IMDG : UN-No **3082**
Class 9
Packaging group III
EmS NONE
Marine pollutant P
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOPROTURON SOLUTION)

IATA : UN-No **3082**
Class 9

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Packaging group	III
Description of the goods	Environmentally hazardous substance, liquid, n.o.s. (ISOPROTURON SOLUTION)
CDG CPL : UN-No	3082
Class	9
Packaging group	III
Hazard identification number	90
Emergency action code	2X
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOPROTURON)

15. REGULATORY INFORMATION

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

Hazardous components which must be listed on the label:

- Isoproturon

Exceptional labelling of special preparations : Restricted to professional users.
To avoid risks to man and the environment, comply with the instructions for use.

Further information : WHO-classification: II (Moderately hazardous)

Symbol(s):	: Xn N	Harmful Dangerous for the environment
R-phrase(s)	: R40 R50/53	Limited evidence of a carcinogenic effect. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S35 S36/37 S57	This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves. Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

Further information



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Text of R phrases mentioned in Section 2:

- R22 Harmful if swallowed.
- R40 Limited evidence of a carcinogenic effect.
- R50/53 Very 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.

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 will be highlighted in the margin. This version replaces all previous versions.