

**BASTA 200 SL200 12X1L BOT IE**

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Version 1 / IRL  
10200000577Revision Date: 12.07.2005  
Print Date: 12.07.2005**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	BASTA 200 SL200 12X1L BOT IE
Product code (UVP)	05936071, 05819792
Product code	AE F039866 00 SL18 B7
Specification	21041
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**Soluble concentrate (SL)  
Glufosinate-ammonium 200 g/l**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases	Concentration [%]
Glufosinate ammonium	77182-82-2 278-636-5	Xn	R22	18.00
Alkylethersulfate, sodium salt	68891-38-3	Xi	R38, R41	>= 10.00
1-Methoxy-2-propanol	107-98-2 203-539-1		R10	<= 10.00
Perfluorinated phosphinic-/phosphonic acids		Xn, N	R22, R51/53	<= 5.00

**3. HAZARDS IDENTIFICATION****Risk advice to man and the environment**Harmful in contact with skin and if swallowed.  
Irritating to eyes.**4. FIRST AID MEASURES****Inhalation**

Remove to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

**Skin contact**

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of

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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 thoroughly with water. Do not induce vomiting. Call a physician immediately.

**Notes to Physician****Symptoms**

shivering; disturbance of consciousness, cramps after several hours delay, gastrointestinal discomfort, hyperthermia, dyspnoea, bradycardia/tachycardia

**Treatment**

Emergency measures: Symptomatic treatment and administration of antidotes, decontamination.

Contraindication: atropine.

Endotracheal intubation should be done and gastric lavage performed, followed by administration of Charcoal and Sodium Sulphate.

Therapeutic: Phenobarbital-Sodium, 1 mg/kg intra-muscular or subcutaneously till maximum 5 mg/kg daily; when necessary, 10 mg Diazepam slowly intravenously.

Elimination by dialysis (forced alkaline diuresis) or haemoperfusion.

ECG - monitoring (Electrocardiogram).

EEG - monitoring (Electroencephalogram).

Monitoring of respiratory, cardiac and central nervous system.

Artificial respiration and/or oxygen may be necessary.

In the event of a mouthful or more being ingested, keep under medical supervision for at least 48 hours.

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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

water spray  
foam  
carbon dioxide (CO<sub>2</sub>)  
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<sub>x</sub>)

Sulphur oxides

hydrogen fluoride

phosphorus oxides (eg phosphorus pentoxide)

Under certain conditions of combustion traces of other toxic substances, such as hydrocyanic acid, cannot be excluded

**Special protective equipment for fire-fighters**

Wear full protective suit.

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.

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Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

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**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Evacuate personnel to safe areas.  
Use personal protective equipment.

**Environmental Precautions**

Do not allow spilt product to enter soil or waterways  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.

**Methods for Cleaning Up**

Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).  
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.

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**7. HANDLING AND STORAGE****Handling**

## Advice on safe handling

Provide suitable exhaust ventilation at processing machines.

## Advice on protection against fire and explosion

The product is combustible.  
May be ignited by open flame.  
Keep away from sources of ignition - No smoking.  
The product is neither sensitive to impacts nor to rub effects and is therefore not explosive.

**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 direct sunlight.  
Protect against frost.

## Advice on common storage

Keep away from food, drink and animal feedingstuffs.

## Storage stability

Storage period	> 24 Months
Storage temperature	0 - 30 °C

## Suitable materials

Store in original container.  
Plastic container of HDPE  
Polyethylene-terephthalate (PET)  
Stove-painted steel  
glass

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Components	CAS-No.	Control parameters	Update	Basis
1-Methoxy-2-propanol	107-98-2	375 mg/m <sup>3</sup> / 100 ppm (TWA)	05 2003	EU ELV
1-Methoxy-2-propanol	107-98-2	568 mg/m <sup>3</sup> / 150 ppm (STEL)	05 2003	EU ELV
1-Methoxy-2-propanol	107-98-2	184 mg/m <sup>3</sup> / 50 ppm (TWA)	2002	ELV (IE)
1-Methoxy-2-propanol	107-98-2	368 mg/m <sup>3</sup> / 100 ppm (STEL)	2002	ELV (IE)

**Engineering measures**

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

**Personal protective equipment**

Respiratory Protection	Short term: filter apparatus, Filter A/P2.
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	Safety glasses / face shield
Skin and body protection	protective suit
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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	blue
Odour	weakly pungent

**Safety data**

pH	6.6 at 1 %
Boiling point/ range	> 90 °C

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Flash Point	60 °C closed cup The product does not sustain combustion.
Autoignition Temperature	440 °C 92/69/EEC, A.15
Density	ca. 1.103 g/cm <sup>3</sup> at 20 °C
Water Solubility	soluble
Partition Coefficient (n-octanol/water)	log Pow: -4.01 measured at pH 7
Viscosity, kinematic	21.99 mm <sup>2</sup> /s at 40 °C
Surface tension	24.5 mN/m at 40 °C
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive

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**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Exposure to extreme heat. Exposure to moisture.
Materials to avoid	None known.
Hazardous Decomposition Products	nitrogen oxides (NO <sub>x</sub> ) Carbon oxides
Hazardous Reactions	Evolution of ammonia under influence of alkaline substances. Stable under recommended storage conditions.

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**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity	LD50 (rat) 1,910 mg/kg
Acute Inhalation Toxicity	LC50 (rat) 3.22 mg/l Exposure time: 4 h The acute inhalational toxicity (LC50) was determined in the form of a respirable aerosol.
Acute Dermal Toxicity	LD50 (rat) 1,380 mg/kg
Skin Irritation	slight irritant effect - does not require labelling (rabbit)
Eye Irritation	irritating (rabbit)
Sensitization	Non-sensitizing (guinea pig) OECD Test Guideline 406, Buehler test

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Further information

The toxicological data refer to a similar formulation.

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**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Biodegradability                      According to the results of tests on biodegradability this product is considered as being readily biodegradable.

**Ecotoxicity effects**

Toxicity to Fish                      LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 34 mg/l  
Exposure time: 96 h

Toxicity to daphnia                      EC50 (Water flea (*Daphnia magna*)) 26.8 mg/l  
Exposure time: 48 h

Toxicity to algae                      EC50 (*Desmodesmus subspicatus*) 36 mg/l  
Exposure time: 72 h

**Further information on ecology**

Additional ecological information

Non-hazardous for bees.

The ecotoxicological data refer to a similar formulation.

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**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.

**Contaminated packaging**

Small containers (< 10 litres) 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.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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**14. TRANSPORT INFORMATION**

ADNR	Not dangerous goods
ADR	Not dangerous goods
GGVE	Not dangerous goods
GGVS	Not dangerous goods
IATA_C	Not dangerous goods
IATA_P	Not dangerous goods
IMDG	Not dangerous goods
RID	Not dangerous goods

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Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Hazardous components which must be listed on the label:

- Glufosinate ammonium

## Symbol(s)

Xn Harmful

## R-phrases(s)

R21/22 Harmful in contact with skin and if swallowed.

R36 Irritating to eyes.

## 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.

S36/37 Wear suitable protective clothing and gloves.

## Exceptional labelling

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

## Further information

WHO-classification: II (Moderately hazardous)

**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

R10 Flammable.

R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
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