

Safety data sheet

Page: 1/9

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.11.2010

Version: 1.0

Product: **BASAGRAN SG**

351 45 H

(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

1. Identification of the substance/mixture and of the company/undertaking

BASAGRAN SG

Use: crop protection product, herbicide

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Contact address:

BASF plc

PO Box 4, Earl Road, Cheadle Hulme, Cheadle, Cheshire

SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222

Telefax number: +44 161 488-4274

E-mail address: product-safety-north@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

Harmful if swallowed.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 03.11.2010
Product: **BASAGRAN SG**

Version: 1.0

351 45 H
(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

3. Composition/Information on Ingredients

Chemical nature

crop protection product, herbicide, water soluble granules (SG)

Contains: bentazone-sodium

Hazardous ingredients

according to Directive 1999/45/EC

bentazone

Content (W/W): 87 %
CAS Number: 25057-89-0
EC-Number: 246-585-8
INDEX-Number: 613-012-00-1
Hazard symbol(s): Xn
R-phrases: 22, 36, 43, 52/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, foam, dry powder, carbon dioxide

Specific hazards:
carbon monoxide, Sulphur dioxide, nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
Avoid dust formation. Sources of ignition should be kept well clear. Use personal protective clothing.

Environmental precautions:
Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

Methods for cleaning up or taking up:
For small amounts: Contain with dust binding material and dispose of.
For large amounts: Sweep/shovel up.
Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly.

Protection against fire and explosion:
Keep away from sources of ignition - No smoking. Dust can form an explosive mixture with air. Fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.11.2010

Version: 1.0

Product: **BASAGRAN SG**

351 45 H

(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

none

For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	granules
Colour:	yellow
Odour:	faint specific odour, aromatic

pH value:	approx. 7.2 - 7.4 (10 g/l, 20 °C)
-----------	--------------------------------------

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.11.2010

Version: 1.0

Product: **BASAGRAN SG**

351 45 H

(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

Melting point:	not applicable	
Boiling point:	dropped	
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Ignition temperature:	550 °C	
Self ignition:	not self-igniting	(Method: UN Test N.2 (pyrophoric solids))
Minimum ignition energy:	> 1.3 J	
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	dropped	
Density:	1.426 g/cm ³ (20 °C)	(OECD Guideline 109)
Bulk density:	626 - 709 kg/m ³	
Solubility in water:	water soluble granules (SG), soluble	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Surface tension:	62.8 mN/m (20 °C; 0.4 % (V))	(OECD-Guideline 115)
	57.7 mN/m (20 °C; 1.6 % (V))	(OECD-Guideline 115)
	57.4 mN/m (20 °C; 0.6 % (V))	(OECD harmonized ring method)
Viscosity, dynamic:	not applicable	
Viscosity, kinematic:	not applicable	

10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
acids

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 03.11.2010
Product: **BASAGRAN SG**

Version: 1.0

351 45 H
(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): 707 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 5.5 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

May cause sensitization by skin contact.

Information on: bentazone tech.

Experimental/calculated data:

Guinea pig maximization test guinea pig: sensitizing (OECD Guideline 406)

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oncorhynchus mykiss* (EPA 72-1, static)

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic plants:

EC50 (72 h) 34.8 mg/l (biomass), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

EC50 (72 h) > 100 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.11.2010

Version: 1.0

Product: **BASAGRAN SG**

351 45 H

(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

Not readily biodegradable (by OECD criteria).

Information on: bentazone

Elimination information:

3 % (28 d)

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADNR

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 03.11.2010
Product: **BASAGRAN SG**

Version: 1.0

351 45 H
(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Regulations of the European union (Labelling) / National legislation/Regulations

Classification/labelling in accordance with UK regulations.:

Hazard symbol(s)

Xn Harmful.

R-phrases(s)

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using do not eat, drink or smoke.
S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

Hazard determining component(s) for labelling: BENTAZON

Other regulations

To avoid risks to man and the environment, comply with the instructions for use.
The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).
This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).
This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 03.11.2010

Version: 1.0

Product: **BASAGRAN SG**

351 45 H

(30059066/SDS_CPA_GB/EN)

Date of print 04.11.2010

16. Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

Xn	Harmful.
22	Harmful if swallowed.
36	Irritating to eyes.
43	May cause sensitization by skin contact.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.