

**ATTRIBUT SG70 10X300GR BOT TN**Version 3 / EU
1020000115421/7
Revision Date: 15.07.2011
Print Date: 17.08.2011**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	ATTRIBUT SG70 10X300GR BOT TN
Product code (UVP)	06357164
Usage	Herbicide
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany
Telefax	+49(0)2173-38-7394
Responsible Department	Material and Transport Safety Management +49(0)2173-38-3409/3189 (during business hours only) Email: MSDS@bayercropscience.com
Emergency telephone no.	+49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

2. HAZARDS IDENTIFICATION**2.1 CLASSIFICATION****Classification in accordance with the EC directives 67/548/EEC or 1999/45/EC.**

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

Classification in accordance with Regulation (EC) No 1272/2008.

Acute aquatic toxicity, Chronic aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

2.2 LABELLING**Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.**

Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- Propoxycarbazone-sodium

Symbol(s)

N Dangerous for the environment

R-phrases(s)

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.**Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

**ATTRIBUT SG70 10X300GR BOT TN**Version 3 / EU
1020000115422/7
Revision Date: 15.07.2011
Print Date: 17.08.2011

Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- Propoxycarbazone-sodium

Signal word:
Warning

Hazard statements

- H410 Very toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

- P501 Dispose of contents/container in accordance with local regulation.

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

Water soluble granules (SG)
Propoxycarbazone-Sodium 70 % w/w

Hazardous components

R-phrase(s) according to EC directive 67/548/EEC
Hazard statements according to Regulation (EC) No. 1907/2006

Chemical Name	CAS-No. / EC-No.	Symbol(s) R-phrase(s)	Pictogram Hazard statements	Concentration [%]
Propoxycarbazone-sodium	181274-15-7	N R50/53	 H410	70,00

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.

Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off immediately with soap and plenty of water.

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



ATTRIBUT SG70 10X300GR BOT TN

Version 3 / EU
102000011542

3/7
Revision Date: 15.07.2011
Print Date: 17.08.2011

medical attention if irritation develops and persists.

Ingestion

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

Notes to physician

Treatment

Treat symptomatically.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray
Carbon dioxide (CO₂)
Foam
Sand

Specific hazards during fire fighting

In the event of fire the following may be released:

Hydrogen cyanide (hydrocyanic acid)
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.

Further information

Contain the spread of the fire-fighting media.
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.

Methods for cleaning up

Use mechanical handling equipment.
Clean contaminated floors and objects thoroughly, observing environmental regulations.
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.

7. HANDLING AND STORAGE



ATTRIBUT SG70 10X300GR BOT TN

Version 3 / EU
102000011542

4/7
Revision Date: 15.07.2011
Print Date: 17.08.2011

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers

Store in original container.

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

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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	No personal respiratory protective equipment normally required. 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. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
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).

9. PHYSICAL AND CHEMICAL PROPERTIES

**ATTRIBUT SG70 10X300GR BOT TN**Version 3 / EU
1020000115425/7
Revision Date: 15.07.2011
Print Date: 17.08.2011**Appearance**

Form	Fine granules
Colour	tan
Odour	weak, characteristic

Safety data

pH	7,5 - 9,0 at 1 % (23 °C)
Melting point/range	from 160 °C
Flammability (solid, gas)	The product is not highly flammable.
Autoignition temperature	The product is not self-ignitable.
Bulk density	570 - 670 kg/m ³
Water solubility	ca. 42 g/l measured at pH 7
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113
Dust content	nearly dust-free

10. STABILITY AND REACTIVITY

Thermal decomposition	> 175 °C , Heating rate: 3 K/min Exothermic decomposition.
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) > 2.500 mg/kg
Acute inhalation toxicity	LC50 (rat) > 4.995 mg/l Exposure time: 4 h Highest attainable concentration. Determined in the form of a respirable aerosol.
Acute dermal toxicity	LD50 (rat) > 2.000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test
Further information	

**ATTRIBUT SG70 10X300GR BOT TN**Version 3 / EU
1020000115426/7
Revision Date: 15.07.2011
Print Date: 17.08.2011

Information given is based on data obtained from similar substances.

12. ECOLOGICAL INFORMATION

Biodegradability Not readily biodegradable.

Ecotoxicity effects

Toxicity to fish LC50 (Rainbow trout (*Oncorhynchus mykiss*)) > 77,6 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient.

Toxicity to aquatic invertebrates EC50 (Water flea (*Daphnia magna*)) > 107 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient.

Toxicity to aquatic plants EC50 (*Selenastrum capricornutum*) > 113,4 mg/l
Exposure time: 72 h
Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (*Lemna gibba* (duckweed)) 0,0158 mg/l
Exposure time: 7 d
Test conducted with 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.

Contaminated packaging

Not completely emptied packagings should be disposed of as hazardous waste.

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. (PROPOXYCARBAZONE-SODIUM 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.

**ATTRIBUT SG70 10X300GR BOT TN**Version 3 / EU
1020000115427/7
Revision Date: 15.07.2011
Print Date: 17.08.2011**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. (PROPOXYCARBAZONE-SODIUM 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. (PROPOXYCARBAZONE-SODIUM MIXTURE)

15. REGULATORY INFORMATION

Further information
WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of the hazard statements mentioned in Section 3

H410 Very toxic to aquatic life with long lasting effects.

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. 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.

Reason for Revision: New safety data sheet according to Regulation (EC) 1272/2008. See Chapters 2, 3, 15.

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