



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Benta 480 SL

Version 1 (UK)

Issuing date: 2015/12/01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name : **Benta 480 SL**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Herbicide

1.3. Details of the supplier of the safety data sheet

Nufarm UK Limited
Wyke Lane
Wyke
Bradford
West Yorkshire BD12 9EJ
United Kingdom
Telephone: +44 (0)1274 691234
Telefax: +44 (0)1274 691176
E-mail address: infouk@uk.nufarm.com

1.4. Emergency telephone number

+44 (0)1274 696603

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EG_1272/08 : AcuteTox.4 H302 - Harmful if swallowed.
SkinSens.1 H317 - May cause an allergic skin reaction.
AquaticChronic3 H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

REGULATION (EC) No 1272/2008

Pictogram:



GHS07

Signal word: Warning

- H302 - Harmful if swallowed.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

- P261 - Avoid breathing vapours or spray.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non hazardous waste.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Aqueous solution
contains 480g/L Bentazone

3.2. Mixtures

Components:

bentazone
CAS-No.: 25057-89-0
EINECS-No. / ELINCS No.: 246-585-8
REACH No.:



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Concentration: 40.5 % (w/w)

Classification:

EG_1272/08 :	AcuteTox.4	H302 - Harmful if swallowed.
	EyeIrrit.2	H319 - Causes serious eye irritation.
	SkinSens.1	H317 - May cause an allergic skin reaction.
	AquaticChronic3	H412 - Harmful to aquatic life with long lasting effects.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.

Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.

Inhalation : Move affected person(s) into fresh air. When symptoms persist or in all cases of doubt seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

Ingestion : Rinse mouth. Drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water mist, Foam, Carbon dioxide (CO₂), Dry chemical

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions., In the event of fire (NO_x, CO_x, SO₂) may be formed.



5.3. Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Further Information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. (see Chapter 8)

6.2. Environmental precautions

Do not contaminate surface water. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel or sweep up. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly.
- Additional advice : Never return spills in original containers for re-use.

6.4. Reference to other sections

see Chapter 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

- Safe handling advice : Avoid contact with skin and eyes. When using do not eat, drink or smoke. Protect against light.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Do not store at temperatures above 40°C.



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Advice on common storage : Keep away from food, drink and animal feeding stuffs.

Storage stability

Storage temperature : > -5 °C

7.3. Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters
(EH40/2005 Workplace exposure limits)

Components	CAS-No.	National occupational exposure limits	Note
bentazone	25057-89-0		no classification available

8.2. Exposure controls

Personal protective equipment

- Respiratory protection : Provide adequate ventilation. Suitable respiratory equipment: Respirator with a particle filter (EN 143) P2 filter P3 filter
- Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374., Do not wear leather gloves., Do not wear cotton gloves.
- Eye protection : Safety glasses with side-shields conforming to EN166, , or., Face-shield
- Skin and body protection : Wear suitable protective equipment., Long sleeved clothing, Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before re-use.
- Protective measures : When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties



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Appearance

Physical state	: liquid
Form	: Soluble concentrate
Colour	: dark yellow
Odour	: faint
	: no data available
	: 100 °C
Flash point	: 100 °C The product is not flammable.
Explosivity	: Not explosive
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Water solubility	: soluble
pH	: 7.2
Partition coefficient: n-octanol/water	: log POW = <3 Bentazone
Viscosity, dynamic	: 8,501 mPa.s at 40 °C
Surface tension	: 46.9 mN/m

9.2. Other information

none

10. STABILITY AND REACTIVITY



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10.1. Reactivity

no data available

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Stable under recommended storage conditions.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials to avoid

Oxidizing agents, Strong acids

10.6. Hazardous decomposition products

nitrogen oxides (NO_x), Carbon oxides, Sulphur oxides

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50 Oral rat
Dose: 1,400 - 1,800 mg/kg

Acute dermal toxicity : LD50 Dermal rat
Dose: > 5,000 mg/kg

Acute inhalation toxicity : LC50 rat
Exposure time: 4 h
Dose: 5.1 mg/l

Skin irritation : Result: No skin irritation

Eye irritation : rabbit
Result: No eye irritation

Sensitisation : Guinea-pig
Result: May cause sensitization by skin contact.



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Mutagenicity : not mutagenic

Carcinogenicity : not carcinogenic

Reproductive toxicity : No reproductive effects

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish : LC50 *Oncorhynchus mykiss* (Rainbow trout)
Dose: > 100 mg/l
Testing period: 96 h
Test substance: Bentazone

Toxicity to daphnia : LC50 *Daphnia magna* (Water flea)
Dose: 64 mg/l
Testing period: 48 h
Test substance: Bentazone

Toxicity to algae : EC50 *Anabaena flos-aquae* (cyanobacterium)
Dose: 10.1 mg/l
Exposure time: 120 h
Test substance: Bentazone

EC50 *Lemna gibba* (Duckweed)
Dose: 5.4 mg/l
Exposure time: 14 d
Test substance: Bentazone

12.2. Persistence and degradability

Biodegradability : no data available

Additional advice : no data available

12.3. Potential bioaccumulation

Bioaccumulation : no data available

12.4. Mobility in soil



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no data available

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Other adverse effects

none

13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended :

Waste Code : 02 01 08 (agrochemical waste containing dangerous substances)

13.1. Waste treatment methods

Product : Do not empty into drains. Dispose of product and packaging in accordance with the "Code of practice for using plant protection products". A DEFRA publication

Contaminated packaging : Dispose empty and triple rinsed container within a local disposing system Do not re-use empty containers.

14. TRANSPORT INFORMATION

14.1. UN number

14.2. Proper shipping name

not applicable

14.3. Transport hazard class(es)

ADR/RID :

Not a dangerous substance as defined in the above regulations.

IMDG :



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Not a dangerous substance as defined in the above regulations.

IATA-DGR :

Not a dangerous substance as defined in the above regulations.

14.4. Packaging group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

none

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.

15.2. Chemical Safety Assessment

none

16. OTHER INFORMATION

Print Date : 2015/12/01

The date format YYYY/MM/DD is used according to ISO 8601.
(Alterations are indicated in the left hand margin by: ||)



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