



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Nando 500SC**

Version 2 (UK)

Issuing date: 2014/01/30

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

#### 1.1. Product identifier

Trade name : **Nando 500SC**

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

Use : fungicide

#### 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

|              |                 |   |
|--------------|-----------------|---|
| EEC/99/45 :  | <b>Xi</b>       | <b>R38 - Irritating to skin.</b>  |
| EEC/99/45 :  | Xi              | R43 - May cause sensitization by skin contact.  |
|              | Xn              | R63 - Possible risk of harm to the unborn child.  |
|              | N               | R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| EG_1272/08 : | SkinIrrit.2     | H315 - Causes skin irritation.  |
|              | SkinSens.1      | H317 - May cause an allergic skin reaction.   |
|              | Repr.2          | H361d - Suspected of damaging the unborn child.   |
|              | AquaticAcute1   | H400 - Very toxic to aquatic life.  |
|              | AquaticChronic1 | H410 - Very toxic to aquatic life with long lasting effects.  |

#### 2.2. Label elements

according directive 1999/45/EG

Pictogram:



Xn



N

- R38 - Irritating to skin.  
 R43 - May cause sensitization by skin contact.  
 R63 - Possible risk of harm to the unborn child.  
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S20/21 - When using do not eat, drink or smoke.  
 S36/37 - Wear suitable protective clothing and gloves.  
 S35 - This material and its container must be disposed of in a safe way.  
 S57 - Use appropriate container to avoid environmental contamination.

REGULATION (EC) No 1272/2008

Pictogram:



GHS07



GHS08



GHS09

Signal word: Warning

- H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H361d - Suspected of damaging the unborn child.  
 H410 - Very toxic to aquatic life with long lasting effects.
- P101 - If medical advice is needed, have product container or label at hand.  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 - Wash hands and face thoroughly after handling.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 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.



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### 2.3. Other hazards

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : suspension concentrate (SC)  
contains 500 g/L Fluazinam

### Components:

#### Fluazinam

CAS-No.: 79622-59-6  
EINECS-No. / ELINCS No.:  
REACH No.:  
Concentration: 40.0 % (w/w)

#### Classification:

|              |                 |   |
|--------------|-----------------|---|
| EG_1272/08 : | AcuteTox.4      | H332 - Harmful if inhaled.  |
|              | SkinIrrit.2     | H315 - Causes skin irritation.  |
|              | EyeDam.1        | H318 - Causes serious eye damage.   |
|              | SkinSens.1      | H317 - May cause an allergic skin reaction.   |
|              | Repr.Cat.2      | H361 - Suspected of damaging fertility or the unborn child.   |
|              | AquaticAcute1   | H400 - Very toxic to aquatic life.  |
|              | AquaticChronic1 | H410 - Very toxic to aquatic life with long lasting effects.  |
| EEC/67/548 : | Xn              | R20 - Harmful by inhalation.  |
|              | Xi              | R38 - Irritating to skin.   |
|              | Xi              | R41 - Risk of serious damage to eyes.   |
|              |                 | R43 - May cause sensitization by skin contact.  |
|              | Repr.Cat.3      | R63 - Possible risk of harm to the unborn child.  |
|              | N               | R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

#### Ammonium salt of polyarylphenyl ether sulphate

CAS-No.: 119432-41-6  
EINECS-No. / ELINCS No.:  
REACH No.:  
Concentration: 1% - 5% (w/w)

#### Classification:

|              |                 |  |
|--------------|-----------------|--|
| EG_1272/08 : | EyeIrrit.2      | H319 - Causes serious eye irritation.  |
|              | AquaticChronic3 | H412 - Harmful to aquatic life with long lasting effects.  |
| EEC/67/548 : | Xi              | R36 - Irritating to eyes.  |
|              | -               | R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

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



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- If eye irritation persists, consult a specialist.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water.
- Inhalation : Move affected person(s) into fresh air. If symptoms persist, call a physician.
- Ingestion : Do NOT induce vomiting. Obtain medical attention.

### 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 : Carbon dioxide (CO<sub>2</sub>), Dry powder, Water spray
- Extinguishing media which shall not be used for safety reasons : High volume water jet

### 5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In the event of fire (HCl, Cl<sub>2</sub>, NO<sub>x</sub>, CO) may be formed.

### 5.3. Advice for firefighters

- Special protective equipment for firefighters : 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.

## 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 flush into surface water or sanitary sewer system.

## 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 into suitable container for disposal.

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 : Keep out of reach of children. Avoid contact with skin and eyes. Wear personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Protect from frost. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place.

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

### 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   |
|------------|------------|---------------------------------------|--|
| Fluazinam  | 79622-59-6 |                                       | no classification available, not listed in EH40/2005 |



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|  |             |  |
|--|-------------|--|
| Ammonium salt of polyarylphenyl ether sulphate | 119432-41-6 | no classification available, not listed in EH40/2005 |
|--|-------------|--|

### 8.2. Exposure controls

#### Personal protective equipment

- Respiratory protection : No special protective equipment required.
- Hand protection : PVC or nitrile-rubber gloves
- Eye protection : Goggles, , or:, Safety glasses
- Skin and body protection : Lightweight protective clothing
- Hygiene measures : Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. When using, do not eat, drink or smoke. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Handle in accordance with good industrial hygiene and safety practice.
- Protective measures : Avoid contact with skin and eyes and inhalation of vapours. When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

- Form : viscous liquid
- Colour : yellow-orange
- Odour : odourless
- Flash point : does not flash
- Ignition temperature : >400 °C
- Density : 1.3 g/cm<sup>3</sup>  
at ca.20 °C
- pH : 7.9  
at 10 g/l
- Viscosity, dynamic : 29.5 - 1,321 mPa.s  
at 20 °C



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24.3 - 925 mPa.s  
at 40 °C

Surface tension : 60.9 mN/m  
at 20 °C

## 9.2. Other information

none

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

### 10.5. Incompatible materials to avoid

none

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute oral toxicity : LD50 rat female  
Dose: > 2,000 mg/kg

Acute dermal toxicity : LD50 rat



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|                           |  |
|---------------------------|--|
|                           | Dose: > 2,000 mg/kg  |
| Acute inhalation toxicity | : LC50 rat<br>Dose: > 0.967 mg/l                                 |
| Skin irritation           | : rabbit<br>Result: Irritating to skin.                          |
| Eye irritation            | : rabbit<br>Result: No eye irritation                            |
| Sensitisation             | : Guinea-pig<br>Result: May cause sensitization by skin contact. |

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

|                     |  |
|---------------------|--|
| Toxicity to fish    | : LC50 <i>Oncorhynchus mykiss</i> (Rainbow trout)<br>Dose: 0.14 mg/l<br>Testing period: 96 h |
| Toxicity to daphnia | : EC50 <i>Daphnia magna</i> (Water flea)<br>Dose: 0.042 mg/l<br>Testing period: 48 h         |
| Toxicity to algae   | : EbC50 <i>Desmodesmus subspicatus</i><br>Dose: 0.16 mg/l<br>Exposure time: 72 h             |
|                     | ErC50 <i>Desmodesmus subspicatus</i><br>Dose: 0.39 mg/l<br>Exposure time: 72 h               |

### 12.2. Persistence and degradability

|                  |                     |
|------------------|---------------------|
| Biodegradability | : no data available |
|------------------|---------------------|





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### 12.3. Potential bioaccumulation

Bioaccumulation : no data available

### 12.4. Mobility in soil

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 : Dispose of product and packaging in accordance with The Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging : Do not re-use empty containers. Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### 14.1. UN number

UN3082

### 14.2. Proper shipping name

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*(Fluazinam)

### 14.3. Transport hazard class(es)



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ADR/RID :  
Class : 9

IMDG :  
Class : 9

IATA-DGR :  
Class : 9

**14.4. Packaging group**

ADR/RID : III

IMDG : III

IATA-DGR : III

**14.5. Environmental hazards**

**IMDG**  
Marine Pollutant : Y

**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 : 2014/01/30

The date format YYYY/MM/DD is used according to ISO 8601.



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(Alterations are indicated in the left hand margin by: || )

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The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.