

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/6

## Nitroflo 20+S

Revision 10  
Revision date 2015-09-30

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	Nitroflo 20+S
--------------	---------------

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

Description	solution fertiliser.
-------------	----------------------

#### 1.3. Details of the supplier of the safety data sheet

Company	Omex Agriculture Ltd
Address	Bardney Airfield Tupholme Lincoln LN3 5TP United Kingdom
Web	www.omex.co.uk
Telephone	01526 396000
Fax	01526 396001
Email	enquire@omex.com
Email address of the competent person	Safety@omex.com

#### 1.4. Emergency telephone number

Emergency telephone number	01526 396000 9 - 5 Mon - Fri
----------------------------	---------------------------------

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xi; R36/37/38 Symbols: Xi: Irritant.
Main hazards	Irritating to eyes, respiratory system and skin.
2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;

#### 2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.

## Nitroflo 20+S

Revision 10  
Revision date 2015-09-30

## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
<b>Precautionary Statement: Storage</b>	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Precautionary Statement: Disposal</b>	P405 - Store locked up. P501 - Dispose of contents/container to

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ammonium Nitrate		6484-52-2	229-347-8		20 - 30%	O; R8-9 Xi; R36/37/38	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Ammonium Nitrate		6484-52-2	229-347-8		20 - 30%	Ox. Sol. 1: H271; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	May cause irritation to mucous membranes. Move the exposed person to fresh air.
<b>Eye contact</b>	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

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

<b>Inhalation</b>	May cause irritation to respiratory system.
<b>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	May cause irritation to skin.
<b>Ingestion</b>	Seek medical attention if irritation or symptoms persist.

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

	Remove the affected person from the source of contamination immediately.
--	--

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions. Do not allow runoff water to enter sewers or drains.
--	--

# Nitroflo 20+S

Revision 10

Revision date 2015-09-30

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

Water evaporates when heated strongly, after complete evaporation a solid or molten mass may form which, on further heating decomposes giving off toxic fumes.

## 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area.

### 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

### 6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

### 6.4. Reference to other sections

See section 2, 8, 13 for further information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. DO NOT allow any pump handling the product to run dry or over-heat e.g. due to blockage or closed valve in the associated lines, resulting in pumping against a deadend. Under such conditions if over-heating occurs this may cause vaporisation and possible decomposition of the product. This can create pressure build-up in the pump and, if unchecked, lead to an explosion. Ensure that the pump is used correctly according to the manufacturers instructions at all times when pumping the product.

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

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

### 7.3. Specific end use(s)

Fertiliser.

## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

#### 8.2.2. Individual protection measures

Wear protective clothing.

#### Eye / face protection

In case of splashing, wear:.. Approved safety goggles.

#### Skin protection - Handprotection

Chemical resistant gloves (PVC).

## SECTION 9: Physical and chemical properties

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

## Nitroflo 20+S

Revision 10  
Revision date 2015-09-30

## 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Aqueous solution
<b>Colour</b>	Brown
<b>Odour</b>	Slight/Ammoniacal
<b>pH</b>	6.5 - 7.5
<b>Melting point</b>	No data available
<b>Initial boiling point</b>	>
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not relevant
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	1.2 - 1.26 (H <sub>2</sub> O = 1 @ 20 °C)
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	Not determined
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	Not determined
<b>Specific gravity</b>	1.2 - 1.26 g/cm <sup>3</sup>
<b>Gas group</b>	Not applicable.
<b>Benzene Content</b>	No data available
<b>Lead content</b>	No data available
<b>VOC (Volatile organic compounds)</b>	No data available

## Water solubility

	Soluble in water.
--	-------------------

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
--	---------------------------------

## 10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

## 10.3. Possibility of hazardous reactions

	WARNING. Explosive when dry.
--	------------------------------

## 10.4. Conditions to avoid

	DO NOT allow any pump handling the product to run dry or over-heat e.g. due to blockage or closed valve in the associated lines, resulting in pumping against a deadend. Under such conditions if over-heating occurs this may cause vaporisation and possible decomposition of the product. This can create pressure build-up in the pump and, if unchecked, lead to an explosion. Ensure that the pump is used correctly according to the manufacturers instructions at all times when pumping the product.
--	---

## 10.5. Incompatible materials

	No data is available on this product.
--	---------------------------------------

## 10.6. Hazardous decomposition products

## Nitroflo 20+S

Revision 10  
Revision date 2015-09-30

## 10.6. Hazardous decomposition products

	Burning produces obnoxious and irritating fumes.
--	--

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	No data is available on this product.
----------------	---------------------------------------

## 11.1.4. Toxicological Information

Ammonium Nitrate	Dermal Rat LD50: 2950 mg/kg	Oral Rat LD50: 2000 mg/kg
------------------	-----------------------------	---------------------------

## SECTION 12: Ecological information

## 12.1. Toxicity

Ammonium Nitrate	Fish LC50/96h: 100 mg/l	Algae LC50/96h: 1700
------------------	-------------------------	----------------------

	No data is available on this product.
--	---------------------------------------

## 12.2. Persistence and degradability

	No data is available on this product.
--	---------------------------------------

## 12.3. Bioaccumulative potential

	No data is available on this product.
--	---------------------------------------

## Partition coefficient

	Nitroflo 20+S No data available	Ammonium Nitrate Not applicable.
--	---------------------------------	----------------------------------

## 12.4. Mobility in soil

	No data is available on this product.
--	---------------------------------------

## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
--	---------------------------------------

## 12.6. Other adverse effects

	May cause long-term adverse effects in the aquatic environment.
--	---

## SECTION 13: Disposal considerations

## General information

	Dispose of in compliance with all local and national regulations.
--	---

## Disposal methods

	Do not empty into drains; dispose of this material and its container in a safe way.
--	---

## SECTION 14: Transport information

## 14.1. UN number

	The product is not classified as dangerous for carriage.
--	--

## 14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
--	--

## 14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
--	--

## 14.4. Packing group

	The product is not classified as dangerous for carriage.
--	--

## 14.5. Environmental hazards

## Nitroflo 20+S

Revision 10

Revision date 2015-09-30

**14.5. Environmental hazards**

The product is not classified as dangerous for carriage.

**14.6. Special precautions for user**

The product is not classified as dangerous for carriage.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

The product is not classified as dangerous for carriage.

**Further information**

The product is not classified as dangerous for carriage.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>Regulations</b>	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
--------------------	--

**15.2. Chemical safety assessment**

No data is available on this product.

**SECTION 16: Other information****Other information**

<b>Revision</b>	This document differs from the previous version in the following areas: 11 - 11.1.4. Toxicological Information. 12 - 12.1. Toxicity.
<b>Text of risk phrases in Section 3</b>	R8 - Contact with combustible material may cause fire. R9 - Explosive when mixed with combustible material. R36/37/38 - Irritating to eyes, respiratory system and skin.
<b>Text of Hazard Statements in Section 3</b>	Ox. Sol. 1: H271 - May cause fire or explosion; strong oxidiser. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation.

**Further information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.