



## SAFETY DATA SHEET NOVATEC 15-3-20

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

#### 1.1. Product identifier

Product name                      NOVATEC 15-3-20  
Product number                    CTR004/25

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

Identified uses                      Fertiliser for use on managed amenity turf

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

Supplier                              Headland Amenity Ltd.  
   1-3 Freeman Court  
   Jarman Way  
   Royston  
   Hertfordshire  
   SG8 5HW  
   +44 (0)1763 255550  
   sds@headlandamenity.com

Contact person                      Wendy Johnson

#### 1.4. Emergency telephone number

Emergency telephone                +44 (0)1763 255550 (09.00 - 17.00 GMT Monday - Friday)

National emergency telephone number    111

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards                      Not Classified  
Health hazards                        Not Classified  
Environmental hazards                Not Classified

#### 2.2. Label elements

Hazard statements                      NC Not Classified

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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<b>AMMONIUM NITRATE</b>	<b>10-45%</b>
CAS number: 6484-52-2	EC number: 229-347-8
	REACH registration number: 01-2119490981-27-XXXX

<b>Classification</b>
Ox. Liq. 2 - H272
Eye Irrit. 2 - H319

<b>DISODIUM TETRABORATE PENTAHYDRATE</b>	<b>&lt;0.2%</b>
CAS number: 12179-04-3	EC number: 215-540-4
	REACH registration number: 01-2119490790-32-XXXX

<b>Classification</b>
Eye Irrit. 2 - H319
Repr. 1B - H360FD

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments**      The data shown are in accordance with the latest EC Directives.

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
<b>Skin contact</b>	Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	May cause respiratory system irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause temporary eye irritation.

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

**Notes for the doctor**      No specific recommendations. If in doubt, get medical attention promptly.

#### **SECTION 5: Firefighting measures**

##### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Water. The product is not flammable. Use fire-extinguishing media suitable for the surrounding environment.
<b>Unsuitable extinguishing media</b>	Foam. Dry chemicals. Carbon dioxide (CO <sub>2</sub> ). Sand.

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

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**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Nitrous gases (NOx). Ammonia.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid generation of dust. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Stop leak if safe to do so. Scoop/sweep/shovel spill into closing containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.4. Reference to other sections

**Reference to other sections** Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Open container with care to avoid generating dust. Avoid spilling. Avoid contact with skin and eyes. Wash hands thoroughly after handling. Keep away from direct sunlight. Keep away from heat. Protect from moisture.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product.

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

**Storage precautions** Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat sources, combustible materials. Keep away from sources of ignition. Keep away from acids, oxidising agents. Protect from moisture. Keep away from direct sunlight.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### AMMONIUM NITRATE (CAS: 6484-52-2)

**DNEL**

Workers - Inhalation; Long term systemic effects: 36 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 5.12 mg/kg  
Consumer - Oral; Long term systemic effects: 2.56 mg/kg  
Consumer - Inhalation; Long term systemic effects: 8.9 mg/m<sup>3</sup>  
Consumer - Dermal; Long term systemic effects: 2.56 mg/kg

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<b>PNEC</b>	- Fresh water; 0.45 mg/l
	- marine water; 0.045 mg/l
	STP; 18 mg/l

### DISODIUM TETRABORATE PENTAHYDRATE (CAS: 12179-04-3)

<b>DNEL</b>	Workers - Inhalation; Long term : 6.7 mg/m <sup>3</sup>
	Consumer - Inhalation; Long term : 3.4 mg/m <sup>3</sup>
	Workers - Dermal; Long term : 316.4 mg/kg
	Consumer - Dermal; Long term : 159.5 mg/kg
	Consumer - Oral; Long term : 0.79 mg/kg
	Consumer - Oral; Short term : 0.79 mg/kg

<b>PNEC</b>	Fresh water; 2.9 mg/l
	marine water; 2.9 mg/l
	Soil; 5.7 mg/kg
	Intermittent release; 13.7 mg/l
	STP; 10 mg/l

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Provide eyewash station.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.

### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Granules.
<b>Colour</b>	Various.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	No information available.
<b>pH</b>	pH (diluted solution): ~ 5 - 5.5 (100 g/l @ 20oC)
<b>Melting point</b>	No information available.

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<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	Mixture not classed as flammable
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Bulk density</b>	~ 1.150 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	> 130°C
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** No information required.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product. Stable under normal conditions.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures. Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Evolution of ammonia under influence of alkalies.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid frost. Heat and direct sunlight. Avoid moisture.

### 10.5. Incompatible materials

**Materials to avoid** Sulphur. Chlorites. Chloride. Chlorates. Hypochlorites. Acid or alkaline reacting substances. Flammable oxidizable substances. Nitrites. Metallic salts. Metallic powder. Herbicide. Chlorinated hydrocarbons. Organic compounds.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition will produce nitrogen monoxide, nitrogen dioxide, dinitrogenoxide ammonia.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
<b>Skin corrosion/irritation</b>	
<b>Animal data</b>	Rabbit. Result: non-irritant, OECD Test Guideline 404.
<b>Serious eye damage/irritation</b>	
<b>Serious eye damage/irritation</b>	Rabbit: Result: Irritant, OECD Test Guideline 405.
<b>Inhalation</b>	May cause irritation.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin irritation.
<b>Eye contact</b>	May cause eye irritation.

### SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment.

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 48 hours: 422 mg/l, Cyprinus carpio (Common carp)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 555 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** , 168 hours: 83 mg/l, Desmodemus subspicatus

**Acute toxicity - microorganisms** EC<sub>20</sub>, 0.5 hours: >100 mg/l, Activated sludge

##### Ecological information on ingredients.

#### AMMONIUM NITRATE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 490 mg/l, Daphnia magna  
LC<sub>50</sub>, : 490 mg/l,

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 10 days: 1.7 mg/l, Selenastrum capricornutum

#### DISODIUM TETRABORATE PENTAHYDRATE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 74 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 24 hours: 242 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>10</sub>, 96 hours: 24 mg/l, Scenedesmus subspicatus

#### 12.2. Persistence and degradability

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**Persistence and degradability** The product is biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** No information available.

### 12.4. Mobility in soil

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge. There is a high probability that the product is acute not harmful to aquatic organisms. Additional ecological information - the product has not been tested. The information is derived from the properties of the individual components. At higher pH values, which can be found in natural surface waters, an increase of toxic effects on aquatic organisms may be expected.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**NOVATEC 15-3-20****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

<b>Revision comments</b>	Supplier company address updated. Emergency contact details updated. NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	04/03/2021
<b>Revision</b>	2
<b>Supersedes date</b>	03/09/2015
<b>SDS number</b>	20410
<b>Hazard statements in full</b>	H272 May intensify fire; oxidiser. H319 Causes serious eye irritation. H360FD May damage fertility. May damage the unborn child.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.