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# Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name: Entec 26

Chemical Formula: Not Applicable

Product Code: 4570000

Recommended Use: Fertiliser

Company Identification: Ravensdown Fertiliser Co-operative Limited

Address: Level 1, 32 Oxford Terrace

PO Box 1049 Christchurch

Customer Centre: 0800 100 123

National Poisons Information Centre: 0800 POISON (0800 764 766)

Emergency Telephone Number: 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)

Transport Emergency Phone: 111 - tell operator what service is needed: Fire, Ambulance, Police

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification(67/548/EEC,1999/45/EC)

#### 2.2 Label elements

Labelling(REGULATION (EC) No 1272/2008)

Labelling according to EC Directives ()

Further information : Not subject to labelling in accordance with EEC Directives.

Further information : German "Hazardous Substances" legislation (

Gefahrstoffverordnung) appendix III, No. 6 (Ammonium Nitrate

group C IV)

TRGS 511 'Ammonium nitrate'

#### 2.3 Other hazards

No particular dangers occur if the regulation/notes for storage and handling are observed.

## 3. Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Straight Nitrogen fertilizer contains:

Ammonium Nitrate Ammonium Sulphate



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possibly trace element combination 1H-Pyrazole, 3,4-dimethyl-,phosphate (1:1)

#### **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Ammonium Nitrate	6484-52-2 229-347-8 01- 2119490981- 27-0050	O; R 8 Xi; R36	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 10 - <= 45

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. First aid measures

## 4.1 Description of first aid measures

If inhaled : On inhalation of decomposition products: Keep person calm,

have individual removed to fresh air, seek medical help. If danger of loss of consciousness, place person in recovery position and transport accordingly. Perform artificial

respiration if necessary.

On inhalation of fertilizer dusts: Fresh air, if necessary

medical assistance.

In case of skin contact : Wash off with soap and water.

In case of eye contact : Wash affected eyes for at least 15 minutes under running

water with eyelids held open.

If swallowed : Immediately rinse mouth and then drink plenty of water, seek

medical assistance.

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

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

#### 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : When decomposing product is handled:

Water (attention, larger quantities are necessary to stop the

thermic decomposition)

Unsuitable extinguishing media : Sand

Foam

Carbon dioxide (CO2)

Dry chemical

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

Specific hazards during firefighting

: Can decompose at above 170 °C. Thermal decomposition products: Nitrogen monoxide, nitrogen dioxide, dinitrogen



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oxide, ammonia.

5.3 Advice for firefighters

Special protective equipment

for firefighters

Further information

: In the event of fire, wear self-contained breathing apparatus.

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

#### 6. Accidental release measures

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

#### 6.2 Environmental precautions

Do not let product enter drains, surface water or subsoil water. **Environmental precautions** 

Retain and dispose of polluted washing water according to

regulations.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment. Rinse off remainders

with water.

#### 6.4 Reference to other sections

#### 7. Handling and storage

# 7.1 Precautions for safe handling

Advice on protection against

fire and explosion

: Keep away from heat and sources of ignition.

Keep away from combustible materials.

Do not smoke.

The product is incombustible. However, it can lower the

ignition temperature of combustible substances.

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

and containers

Requirements for storage areas : Protect against contamination.

Protect against humidity (product is hygroscopic and tends to

cake or disintegrate)

Keep away from direct sunlight.

Protect against heat.

When stored loosely do not mix with other fertilizers. Advice on common storage

Store well away from other substances, particularly from

organic materials.

Other data : If inappropriately or improperly stored caking or disintegration

possible.

#### 7.3 Specific end use(s)

#### 8. Exposure controls/personal protection

## 8.1 Control parameters



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**DNEL** 

Ammonium Nitrate : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Specific effects

Exposure time: 1 d Value: 37,6 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Specific effects

Exposure time: 1 d Value: 21,3 mg/kg

End Use: Consumers
Exposure routes: Ingestion

Potential health effects: Specific effects

Exposure time: 1 d Value: 12,8 mg/kg

End Use: Consumers Exposure routes: Ingestion

Potential health effects: Specific effects

Exposure time: 1 d Value: 12,8 mg/kg

End Use: Consumers Exposure routes: Inhalation

Potential health effects: Specific effects

Exposure time: 1 d Value: 11,1 mg/m3

**PNEC** 

Ammonium Nitrate : Fresh water

Value: 0,45 mg/l

Marine water Value: 0,045 mg/l

Ceiling Limit Value Value: 4,5 mg/l

#### 8.2 Exposure controls

#### Personal protective equipment

Respiratory protection : If breathable dust is formed: Dust mask.

Hygiene measures : At the end of the shift skin should be cleaned and skincare

product applied.

#### **Environmental exposure controls**

General advice : Do not let product enter drains, surface water or subsoil water.

Retain and dispose of polluted washing water according to

regulations.



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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : granular

Colour : varying, according to dye or colour of the basic materials.

Odour : almost odourless

pH : ca. 4, (100 g/l, 20°C)

Water solubility : mostly soluble

Thermal decomposition : Decomposition above 170 °C., To avoid thermal

decomposition, do not overheat., The product is not capable of self-sustaining progressive thermal decomposition (UN-Test

S1).

9.2 Other information

: Decomposition above 170 °C.

Bulk density : ca. 1.000 kg/m<sup>3</sup>

#### 10. Stability and reactivity

## 10.1 Reactivity

## 10.2 Chemical stability

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Ammonia in contact with alkaline solutions.

The formation of gaseous decomposition products builds up

pressure in tightly closed containers.

#### 10.4 Conditions to avoid

#### 10.5 Incompatible materials

Materials to avoid : Inflammable, oxidizable substances, sourly reacting

substances, alkalinely reacting substances.

#### 10.6 Hazardous decomposition products

Hazardous decomposition

products

: At temperatures above 170 °C, nitrogen monoxide, nitrogen dioxide, dinitrogen oxyde and ammonia can be released.

#### 11. Toxicological information

## 11.1 Information on toxicological effects

#### **Product**

Acute oral toxicity : LD50: > 2.000 mg/kg, rat, The product was not tested. The

statement was derived from products of similar structure and

composition.



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Components:

**Ammonium Nitrate:** 

Acute oral toxicity : LD50: > 2.950 mg/kg, rat, OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l, No information available., Not relevant because

of low vapour pressure., Not relevant because of low dust

formation.

Acute dermal toxicity : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 402
Skin corrosion/irritation : rabbit, Result: non-irritant, OECD Test Guideline 404

Serious eye damage/eye

irritation

: rabbit, Result: Irritant, OECD Test Guideline 405

Respiratory or skin

sensitization

: Result: Does not cause skin sensitization.

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative, OECD Test Guideline 471

STOT - repeated exposure : rat, Oral, Exposure time: 28 d, NOAEL: > 1.500 mg/kg

STOT - repeated exposure : rat, Oral, Exposure time: 52 w, NOAEL: = 256 mg/kg, OECD

Test Guideline 453

STOT - repeated exposure : rat, by inhalation, Exposure time: 2 w, NOAEL: >= 185 mg/kg,

Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

## 12. Ecological information

#### 12.1 Toxicity

## **Product:**

Toxicity to fish : LC50: 422 mg/l, 48 h, various species

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 555 mg/l, 48 h, Daphnia

Toxicity to algae : No observed effect concentration: 83 mg/l, 168 h, green

algae, no data available

Toxicity to bacteria : EC20: > 100 mg/l, 0,5 h, activated sludge, no data available

#### Components:

#### **Ammonium Nitrate:**

Toxicity to fish : LC50: > 100 mg/l, 96 h, various species

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 490 mg/l

: LC50: 490 mg/l

Toxicity to algae : EC50: 1.700 mg/l, other aquatic plant

## 12.2 Persistence and degradability

#### Components:

#### **Ammonium Nitrate:**

# Material Safety Data Sheet according to Regulation (EC) No. 1907/2006



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Biodegradability

The methods for determining the biological degradability are

not applicable to inorganic substances.

12.3 Bioaccumulative potential

Components:

**Ammonium Nitrate:** 

Bioaccumulation

Bioaccumulation is unlikely.

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Product:

Additional ecological

information

 Disposal via sewage water treatment plants may cause impairment of the nitrification activity of the activated sludge., With high probability acutely not harmful to water organisms.

13. Disposal considerations

13.1 Waste treatment methods

Product : Contact manufacturer.

Examine usability in agriculture.

Contaminated packaging : Contaminated packages should be emptied as far as possible

and can be recycled after thorough cleansing.

14. Transport information

14.1 Land transport

ADR

Remarks : No dangerous product according to the rules for road transport

14.2 Sea transport

<u>ADNR</u>

Remarks : No dangerous product according to the rules of barge transport

<u>IMDG</u>

Remarks : No dangerous product according to the rules of vessel transport

14.3 Air transport

**IATA-DGR** 

Remarks : No dangerous product according to the rules of air transport

14.4 Special precautions for user

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



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## 15. Regulatory information

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

Other regulations : The national authority permits and storage regulations must

be observed.

### 15.2 Chemical Safety Assessment

#### 16. Other information

# Full text of R-phrases referred to under sections 2 and 3

R 8 Contact with combustible material may cause fire.

R36 Irritating to eyes.

## Full text of H-Statements referred to under sections 2 and 3.

H272 May intensify fire; oxidiser. H319 Causes serious eye irritation.

#### **Further information**

Other information : Entire wording of the danger symbols and R-phrases from

chapter 3:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.