

# SAFETY DATA SHEET

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

### 1.1 Product Identifier:

**Agrigem 4-2-16 (w/v)**

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

Use as a professional use fertiliser

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

**The Nutrel Group  
Park Farm  
Kettlethorpe  
Lincoln  
LN1 2LD**

**Contact: The Safety Officer  
Phone number: 00 44 (0) 1522 704747  
Email: Stuart.Rycroft@nutrelgroup.co.uk**

### 1.4 Emergency phone number

**Phone number: 00 44 (0) 1522 704747**

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## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFICATION according to Directive EC 1272/2008 Classification, Labelling and Packaging  
**Eye Dam. 1; H318 Causes serious eye damage**

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals  
(Hazard Information and Packaging) regulation  
**Xi; R41 Irritant; Risk of serious damage to eyes.**

### Primary Hazard

Causes serious eye damage.

### 2.2 Label Elements

**Agrigem 4-2-16 (w/v)**  
(contains: Tripotassium orthophosphate E.C. 231-907-1)



**Signal word: Danger**

### Hazard Statements:

**H318 Causes severe eye damage**

### Precautionary Statements

**P280 Wear protective gloves / eye protection.**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON Center or doctor/physician.

### 2.3 Other Hazards






Mixture not classed as PBT or vPvB

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Code:** RL659A

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s)	R-phrase(s)	Concentrations [%]
Tripotassium orthophosphate	7778-53-2/ 231-907-1	-	According to 1272/2008: GHS05  GHS07  According to 67/548/EEC:  Xi - IRRITANT	According to 1272/2008: Eye Dam .1 – H318 STOT Single Exp. 3 – H335  According to 67/548/EEC: R37 R41	10.0 – 15.0
Potassium nitrate	7757-79-1/ 231-818-8	-	According to 1272/2008: GHS07  According to 67/548/EEC:  OXIDISING	According to 1272/2008: Oxid. Solid 3; H272  According to 67/548/EEC: R8	< 5.0

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 Inhalation

If symptoms arise remove from source of exposure to fresh air. Obtain medical attention if symptoms develop or persist.

#### 4.1.2 Skin & Eye exposure

Skin: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Obtain medical attention if symptoms persist or develop.

Eyes: Immediately rinse with clean water for 15 minutes. Obtain medical attention IMMEDIATELY.

#### **4.1.3 Ingestion**

Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention IMMEDIATELY.

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

Causes serious eye damage.

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

Seek medical advice.

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### 5. FIRE-FIGHTING MEASURES

#### **5.1 Extinguishing media**

Use Foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should also be chosen as appropriate for surrounding materials.

#### **5.2 Special Hazards arising from the substance or mixture**

Possible irritant fumes arising from combustion

#### **5.3 Advice for fire-fighters**

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus

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### 6. ACCIDENTAL RELEASE MEASURES

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

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Ensure adequate ventilation

Use personal protective equipment,

- Gloves
- Eye protection
- Suitable respirator if dust is generated during handling

#### **6.2 Environmental Precautions**

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) in large quantities contact local water authority and inform the Environment Agency

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

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

#### **6.4 Reference to other sections**

See also section 8

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### 7. HANDLING AND STORAGE

#### **7.1 Precaution for safe handling**

Avoid contact with skin and eyes. Wash Hands thoroughly after handling. Do not eat, drink or smoke when using this product

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

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials.

### 7.3 Specific end use(s)

No Information available

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### **Tripotassium orthophosphate:**

Workers – Hazard via inhalation route:

DNEL 8.17 mg/m<sup>3</sup>

General population – Hazard via inhalation route:

DNEL 2.01 mg/m<sup>3</sup>

#### **Potassium nitrate:**

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 20,8 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 36,7 mg/m<sup>3</sup>

DNEL/DMEL (General population)

Acute - systemic effects, oral 12,5 mg/kg bodyweight

Long-term - systemic effects, inhalation 10,9 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 12,5 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0,45 mg/l

PNEC aqua (marine water) 0,045 mg/l

PNEC aqua (intermittent, freshwater) 4,5 mg/l

PNEC (STP)

PNEC sewage treatment plant 18 mg/l

### 8.2 Exposure controls

Considered for handling bulk concentrate

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection: physical barrier protection only

Suitable engineering controls should be in place for measuring and decanting of product. Avoid formulation of dust

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance;** Colourless solution

**Odour;** No Information available

**pH;** 7.0 – 8.0

**Melting point/freezing;** No Information available

**Initial boiling point and boiling range;** No Information available

**Flash point;** Mixture not classed as Flammable

**Flammability (solid, gas);** mixture not classed as flammable

**Explosive Properties;** Mixture not classed as explosive

**Oxidising Properties;** Mixture not classed as oxidising

**Vapour Pressure;** No Information available

**Vapour density;** No Information available

**Specific gravity;** 1.22 ± 0.02

**Solubility (ies);** No Information available

**Viscosity;** No Information available

**Partition coefficient: n-octanol/water;** No Information available

## 9.2 Other Information

No other relevant information available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Unknown

### 10.2 Chemical Stability

Stable under normal conditions of use

### 10.3 Possibility of hazardous reactions

Information not available

### 10.4 Conditions to avoid

Extremes of temperature

### 10.5 Incompatible materials

Metals

### 10.6 Hazardous decomposition products

Possible Irritant fumes

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

This mixture has not been assessed for toxicological effects as the mixture is not classified as dangerous based on its individual components.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Mixture not classified as harmful to aquatic life.

### 12.2 Persistence and degradability

Information not available

### 12.3 Bioaccumulative potential

Information not available

### 12.4 Mobility in soil

Information not available

### 12.5 Results of PBT and vPvB

Not classified

### 12.6 Other adverse effects

Information not available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

Use only licensed waste disposal companies for unwanted chemical. Do not re-use empty containers for any purpose, dispose of packaging in accordance with local regulations.

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## 14. TRANSPORT INFORMATION

**14.1 UN number:** Product is unclassified for transport

**14.2 UN proper shipping name:** Product is unclassified for transport

**14.3 Transport hazard** Product is unclassified for transport

**14.4 Packing group:** Product is unclassified for transport

**14.5 Environmental hazards:** Product is unclassified for transport

**14.6 Special precautions for user:** Product is unclassified for transport

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

Applicable for Maritime bulk transport only. Check with carrier.

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#### 15. REGULATORY INFORMATION

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

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, 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, including amendments.

##### **15.2 Chemical Safety Assessment**

CSA not undertaken for this substance

#### 16. OTHER INFORMATION

##### **Other Hazard Information assigned to individual ingredients, but not carried to final classification:**

R8: Contact with combustible material may cause fire.

R37: Irritating to respiratory system.

H272: May intensify fire; oxidiser.

H335: May cause respiratory irritation.

##### **SDS information:**

This safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, 1272/2008 and Annex I of the REACH regulation 453/2010.

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