

# Appendices

## 1 Legislation

### 1 Legislation

Disclaimer: The information provided in this appendix is a guide to the legislation related to fertilisers. AIC shall not be responsible for keeping this list up to date or for any errors or omissions. The company participating in FIAS is responsible for ensuring that it is aware of all legislation related to their business. Ensure EU Exit and devolved nation legislation is considered.

Agriculture Act 1970

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers Official Journal of the European Union number L304 published on 21/11/2003

Regulation (EU) 2019/1009 of the European Parliament and of the Council of 5 June 2019 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003

The Fertilisers Regulations 1991, as amended

The Fertilisers and Ammonium Nitrate Material (Amendment) (EU Exit) Regulations 2019

The Fertilisers (Sampling and Analysis) Regulation 1996, as amended

The Notification of New Substances Regulations 1993, as amended

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009, as amended

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) (EU Exit) Regulations 2020

The European Agreement Concerning the International Carriage of Dangerous Goods by Road latest edition (known as ADR and updated biennially)

The Ammonium Nitrate Materials (High Nitrogen Content) Safety Regulations 2003, as amended

Regulation (EC) No 1272/2008 Of The European Parliament And Of The Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

The Control of Substances Hazardous to Health Regulations 2002, as amended

The Dangerous Substances (Notification and Marking of Sites) Regulations 1990, as amended

The Control of Major Accident Hazards Regulations 2015, as amended

Planning (Hazardous Substances) Act 1990, as amended

The Planning (Control of Major Accident Hazards) Regulations 1999

The Planning (Hazardous Substances) Regulations 1992

The Pollution Prevention and Control Regulations, as amended

Weights and Measures Act 1985, as amended

The Weights and Measures (Packaged Goods) Regulations 1986, as amended

The Producer Responsibility Obligations (Packaging Waste) Regulations 2007, as amended

EC Fertilisers (England & Wales) Regulations 2006

EC Fertilisers (Scotland) Regulations 2006

EC Fertilisers (Northern Ireland) Regulations 2006

The Poisons Act 1972 (Explosives Precursors) (Amendment) Regulations 2018

Control of Poisons and Explosives Precursors Regulations 2015

The Control of Explosives Precursors etc. Regulations (Northern Ireland) 2014

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors

The Explosives Regulations 2014 (Amendment) Regulations 2016

EU REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 UK SI 2020 No 1577

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**2 Codes of practice and guidance documents**

**2 Codes of practice and guidance documents**

DOCUMENT TITLE

CODE OF PRACTICE /  
GUIDANCE

PUBLISHER

|  |                  |                         |
|--|------------------|-------------------------|
| AIC Guide for the Storage, Handling and Transportation of Ammonium Nitrate Based Fertilisers 2015  | Guidance         | AIC                     |
| AIC Ammonium Nitrate Fertiliser Safety Checklist   | Guidance         | AIC                     |
| Ammonium Nitrate Materials (High Nitrogen Content) Safety Regulations 2003   | Guidance         | AIC                     |
| AIC/Defra/HSE guidance note for manufacturers, importers, blenders, transporters, storekeepers and suppliers of ammonium nitrate based fertilisers | Guidance         | AIC                     |
| AIC Recommended Best Practice for the sales of fertiliser explosive precursors on the internet   | Guidance         | AIC                     |
| Code of Practice for suppliers of pesticides to agriculture, horticulture and forestry ("Yellow Code")   | Code of Practice | HSE                     |
| Dangerous Substances (Notification And Marking Of Sites) (NAMOS) Regulations 1990 (Amended 6th April 2013) - INDG 467                              | Guidance         | HSE                     |
| Delivery Guide (DG) for the Inspection of Ammonium Nitrate (AN) Strategic Topics   | Guidance         | HSE                     |
| Fluid Fertiliser Code  | Code of Practice | AIC/ Environment Agency |
| Guidance on Explosives Regulations 2014(Amendment) Regulations 2016  | Guidance         | HSE                     |
| Guidelines for the implementation of Regulation (EU) 2019/1148 on the marketing and use of explosives precursors                                   | Guidance         | EC                      |
| Fertilizers Europe Guidance for Compatibility of Fertilizer Blending materials   | Guidance         | Fertilizers Europe      |
| Guidance for the Storage, Handling and Transportation of Solid Mineral Fertilizers (2007)  | Guidance         | Fertilizers Europe      |
| National Counter Terrorism Security Office (NaCTSO) – Fertiliser Security Five Point Plan  | Guidance         | NaCTSO                  |
| Prevention of Water Pollution from the Storage and Handling of Fluid Fertilisers (1998)  | Code of Practice | AIC                     |
| Recommendations for Inspections of Atmospheric Refrigerated Ammonia Storage Tanks (2008)   | Guidance         | Fertilizers Europe      |
| Safe Handling and Utilisation of Non-Conforming Solid Fertiliser and Related Materials for Fertiliser Producers (2003)                             | Guidance         | Fertilizers Europe      |

|  |                  |                    |
|--|------------------|--------------------|
| Safe Handling and Utilisation of Non-Conforming Solid Fertiliser and Related Materials for Fertiliser Importers, Distributors and Merchants (2004) | Guidance         | Fertilizers Europe |
| Sea Transport of Ammonium Nitrate based Fertiliser (2004)  | Guidance         | Fertilizers Europe |
| Storage of Hot Ammonium Nitrate Solutions (2005)   | Guidance         | Fertilizers Europe |
| Storing and Handling Ammonium Nitrate - INDG 230   | Guidance         | HSE                |
| Transfer and Traceability of Fertiliser Classified as Dangerous Goods  | Code of Practice | AIC                |
| UK REACH   | Guidance         | HSE                |

### 3 Definitions

#### 3 Definitions

**Agent (or Broker)**

An agent (or broker) facilitates a contract between a buyer and a seller but takes no financial involvement in the transaction except to receive a commission from either buyer or seller or both. If a Body, Person or Company that acts as a principal to the debt incurred in the supply of fertiliser, they are a merchant. If the agent is authorised to agree sales on behalf of a company or enter sales into the system then they must be trained as a sales representative.

**Blended fertiliser**

A fertiliser obtained by dry mixing of more than one fertiliser, with no chemical reaction.

**Business process risk assessment**

An assessment for the purposes of FIAS which identifies the hazards, threats and resulting risks related to legal compliance, security, traceability and product safety of all fertiliser operations undertaken by the business.

It is distinct from a Health and Safety Risk Assessment but may follow similar principles.

**Caking tendency**

The ability for fertiliser granules or prills to form an agglomeration. Mechanisms for caking are numerous and include formation of crystal bridges due to incompatibility or post reactions, moisture content and/or pick up, high fines/dust content and granule deformation.

**Company**

The organisation certified or seeking certification under FIAS.

**Compatibility**

Materials when mixed together are not necessarily compatible with each other; some may produce undesirable effects when mixed with others; in other words, they may not be compatible. These undesirable effects can include chemical reaction(s) and physical effects e.g. stickiness which can cause handling difficulties, moisture migration giving rise to caking tendency. For reasons of safety, it is very important to avoid blending ammonium nitrate or raw materials containing ammonium nitrate with any organic materials.

**Detonation Resistance Test (DRT)**

A test carried out by a competent laboratory in accordance with Schedule 2 of the Ammonium Nitrate Materials (High Nitrogen Content) Safety Regulations 2003.

**Foliar fertiliser**

A fertiliser suitable for application to and nutrient uptake by the foliage of a crop.

**Manufacturer**

The natural or legal person responsible for placing a fertiliser on the market; in particular a producer, a blender, an importer, a packager working for its own account, or any person changing the characteristics of a fertiliser, shall be deemed to be a manufacturer. However, a distributor who does not change the

characteristics of the fertiliser shall not be deemed to be a manufacturer.

#### **Merchant**

The Body, Person or Company that acts as a principal to the debt incurred in the supply of fertiliser to a customer and does not change the characteristics of the fertiliser. For the purposes of FIAS, companies which pack or repack fertilisers themselves, or engage a contract packer to do so on their behalf fall within the definition of manufacturer.

#### **Micro-nutrients**

The elements boron, cobalt, copper, iron, manganese, molybdenum and zinc, essential for plant growth in quantities that are small compared with those of primary and secondary nutrients.

#### **Non-conforming product**

Non-conforming materials are those materials which do not meet the characteristics of the intended products at the time of storage or when marketed. They include both off-spec and reject materials, which are defined below. Essentially, they include everything other than marketable specified product.

#### **Off-spec**

The definition of "off-spec" given in The Control of Major Accident Hazards (Amendment) Regulations 2005 is as follows:

Material rejected during the manufacturing process and to ammonium nitrate and preparations of ammonium nitrate, straight ammonium nitrate-based fertilisers and ammonium nitrate-based compound/composite fertilisers referred to in Notes 2 and 3, that are being or have been returned from the final user to a manufacturer, temporary storage or reprocessing plant for reworking, recycling or treatment for safe use, because they no longer comply with the specifications of Notes 2 and 3; or

(b) fertilisers which do not fall within Notes 1(a) and 2, because they do not satisfy the detonation resistance test, other than fertilisers which -

1. (i) at the time of delivery to a final user satisfied the detonation resistance test; but
2. (ii) later became degraded or contaminated; and
3. (iii) are temporarily present at the establishment of the final user prior to their return for reworking, recycling or treatment for safe use or to their being applied as fertiliser.

#### **Placing on the market**

The supply of fertiliser, whether in return for payment or free of charge, or storage for the purpose of supply. Importation of a fertiliser into the customs territory of the UK shall be deemed to constitute placing on the market.

#### **Product**

All fertilisers intended for agriculture, horticulture, forestry, amenity and any other such commercial use, straight or blended.

#### **Product Recall**

Product recall is the process required to enable identification and location of non-conforming material or product at all points in the supply chain between producer and end user in order for remedial action to be agreed and implemented by the parties involved.

#### **Raw Material**

Ingredient used in the production of fertiliser intended for agriculture, horticulture, forestry, amenity and any other such commercial use.

#### **Reject**

Reject materials are those non-conforming materials which are out of specification, or which have deteriorated during storage and/or handling to such an extent that they can be considered potentially hazardous. They cannot be sold as fertiliser products and may require treatment to render them safe. Examples include those which contain more than the maximum permitted level of combustible material; those which have physically degraded into fines and could reasonably be expected to fail the Detonation Resistance Test; product grossly contaminated with reactive substances.

#### **Relevant Ammonium Nitrate**

The definition given in the Ammonium Nitrate Materials (High Nitrogen Content) Safety Regulations 2003 is:

**Ammonium nitrate** in solid form, where its nitrogen content is more than 28% of its weight, material in solid form, comprising a mixture of components, one of which is **ammonium nitrate**, in circumstances where the nitrogen content derived from **ammonium nitrate** is more than 28% of the material by weight, and where the material has a total weight of five hundred kilogrammes or more, but does not include material which is a classified explosive.

#### **Relevant Ammonium Nitrate Mixtures**

The Dangerous Substances (Notification And Marking Of Sites) (NAMOS) Regulations define 'relevant ammonium nitrate mixtures' as ammonium nitrate and mixtures containing ammonium nitrate, where the nitrogen content exceeds 15.75% of the mixture by weight. This definition was transferred from the NIHHS Regulations.

**Resistance to detonation**

The ability of a fertiliser to resist detonation determined by the Detonation Resistance Test.

**Self-sustaining decomposition**

A fertiliser capable of self-sustaining decomposition is defined as one in which decomposition initiated in a localised area will spread through the mass after removal of the initiating heat source. This type of fertiliser is commonly known as a “cigar burner”.

**Source of Supply**

The place from which materials are purchased.

**Storage**

The provision of facilities for the holding of stocks of fertiliser such as warehouse buildings, outside areas including port quaysides, on either an ongoing, temporary or in-transit basis, together with management of personnel employed and the operation of any equipment used, for the handling of such fertiliser.

**Straight fertiliser**

A nitrogenous, phosphoric or potassic fertiliser having a declarable content of only one of these primary nutrients.

**Supplier**

The company that sells fertiliser within the scope of FIAS

**Suspension fertiliser**

A concentrated suspension of finely divided nutrients in a supersaturated nutrient solution, stabilised using a clay or polymer based gelling agent, allowing tailor-made ratios of N, P, K, Mg, Na, S, B, Mn, Zn, Cu, Mo and Se plus nitrification inhibitors and phosphate enhancers to be uniformly applied to the soil by spray application

**Thermal cycling**

A thermal cycle is the application of heat to a closed sample of ammonium nitrate to a temperature of 50OC followed by cooling to 25OC. The combination of successive phases at 50OC and 25OC forms one thermal cycle.

**Traceability**

The ability to track and follow a material or product through all stages of sourcing, production, storage, sales and distribution to end user.

**4 Records**

**4 Records**

The following is a list of the records identified within the text of FIAS and which must be kept.

| Clause | Record Required   |
|--------|---|
| No     |   |
| G2.2   | Policy statement  |
| G3.1   | Management review   |
| eG5.1  | Records of communication of staff responsibilities  |
| G6.1   | Training and competence records   |
| G6.3   | Training and competence records   |
| G9.2   | Notification/approvals for products held on site.   |
| G10.1  | Business process risk assessment records - team members, risks associated with the products, process descriptions, hazard and risk assessments, controls and action plans |

|       |   |
|-------|---|
| G11.1 | Business process assessment review  |
| G13.1 | Supplier approval   |
| G13.1 | Purchase specifications and records   |
| G15.1 | Contracted services – FIAS certification confirmation   |
| G16.2 | Non-FIAS Contractor or merchant customer initial audit and inspection assessments, reports and authorisations.          |
| G16.3 | Non-FIAS Contractor or merchant customer annual audit and inspection assessments, reports and management review record. |
| G18.2 | Internal audit reports and follow-up information  |
| G19.1 | Document control records  |
| G20.1 | Incident management procedure and review  |
| G20.3 | Notification of suspicious or unusual activity to enforcement agencies; actions taken                                   |
| G21.1 | Traceability records  |
| G21.6 | Verification of product recall system in management review  |
| G22.3 | Complaints and actions taken  |
| G24.1 | Purchase contracts for products sourced from overseas   |
| G24.2 | Notification to authorities of AN import  |
| G24.2 | Compliance of fertiliser imports to specification and legislation   |
| G25.1 | DRT certificate/product transaction records   |
| MP1.1 | Management of new product development   |
| MP4.1 | Product inspection/test records   |
| MP6.1 | Non-conforming product records  |
| MP6.2 | Contingency plan for DRT failed AN  |
| MP7.1 | Equipment calibration, Calibration failure investigation  |
| S3.2  | Fire detection system and firefighting equipment maintenance  |

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|------|--|
| S4.1 | Notification and signage for products held                         |
| S5.1 | Product changeover cleaning record                                 |
| S6.1 | Verification of incoming material                                  |
| S6.3 | Appointment of DGSA, certificate and annual report                 |
| S6.4 | Signature and name of employee Agreement of other verifiable means |
| S7.2 | Checks of vehicle/driver legal compliance                          |
| S7.3 | Name/Signature of driver   |
| M1.1 | Customers and product sales checks                                 |
| M1.2 | Non account holding customer details                               |
| M1.5 | Customer and sales records   |
| M1.6 | Evaluation of suspicious request to purchase products              |
| M1.7 | Customer requirement records                                       |
| M2.1 | Training of sales representatives                                  |
| M2.2 | Agent responsibilities   |
| M4.1 | Approval of hauliers   |
| M4.4 | Verification of compliance   |
| T1.1 | Instructions received from clients Bona fide client checks         |
| T3.1 | Instructions passed to drivers                                     |
| T6.1 | Current operator's licence   |
| T6.2 | Appointment of DGSA and certificate                                |
| T7.2 | Damage or loss reporting   |
| T7.3 | Security measures taken when parked/ unattended                    |
| T9.1 | Approval of diversion of deliveries                                |

|      |   |
|------|---|
| T9.2 | Discrepancies on delivery   |
| T9.3 | Proof of delivery/ Risk assessment                                      |
| T9.4 | Proof of delivery/ Risk assessment for bulk solid or liquid fertilisers |

## 5 Contact details including Anti-terrorist hotline

### 5 Contact details including Anti-terrorist hotline

#### Agricultural Industries Confederation (AIC)

Tel: 01733 385230 [www.agindustries.org.uk](http://www.agindustries.org.uk)  
AIC Trade Assurance – FIAS: [www.agindustries.org.uk/fias-scheme](http://www.agindustries.org.uk/fias-scheme)  
AIC FIAS i-learning contact: [uk.fias@kiwa.com](mailto:uk.fias@kiwa.com) or Tel: 01423 878875 (Direct line for training enquiries)

#### Logistics UK

Tel: 03717 11 22 22  
<https://logistics.org.uk/enquiry@logistics.org.uk>

#### Anti-Terrorist Reporting

Hotline: 0800 789321  
[www.met.police.uk/tua/tell-us-about/ath/possible-terrorist-activity/](http://www.met.police.uk/tua/tell-us-about/ath/possible-terrorist-activity/)

#### Health and Safety Executive (HSE)

[www.hse.gov.uk](http://www.hse.gov.uk)  
Tel : 0845 345 0055  
[www.hse.gov.uk/contact/index.htm](http://www.hse.gov.uk/contact/index.htm)

#### National Counter Terrorism Security Office (NaCTSO)

[www.gov.uk/government/organisations/national-counter-terrorism-security-office](http://www.gov.uk/government/organisations/national-counter-terrorism-security-office)  
Tel: 0207 931 7142  
Action Counter Terrorism (ACT) awareness e-learning : <https://ct.highfieldelearning.com/>

#### Home Office

[www.gov.uk/government/organisations/home-office](http://www.gov.uk/government/organisations/home-office)  
Tel: 020 7035 4848  
[public.enquiries@homeoffice.gov.uk](mailto:public.enquiries@homeoffice.gov.uk)

#### BASIS / FACTS

[www.basis-reg.co.uk/](http://www.basis-reg.co.uk/)  
Tel: 01335 340858  
Email : [help@basis-reg.co.uk](mailto:help@basis-reg.co.uk)

#### International Fertiliser Society

<https://fertiliser-society.org/>  
Tel: 01206 851 819  
<https://fertiliser-society.org/contact-ifs/>

**Department for Environment, Food and Rural Affairs (Defra)** Tel: 03000 200 301  
[defra.helpline@defra.gov.uk](mailto:defra.helpline@defra.gov.uk) [www.gov.uk/government/organisations/department-for-environment-food-rural-affairs](http://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs)

#### Kiwa Agri-Food

[www.kiwa.com/gb/en/products/kiwa-agri-food/](http://www.kiwa.com/gb/en/products/kiwa-agri-food/)  
Tel: 01423 878873  
Tel: 01423 878875 (Training direct line)

#### Department for Business, Energy and Industrial Strategy (BEIS)

Tel: 020 7215 5000  
Email: [enquiries@beis.gov.uk](mailto:enquiries@beis.gov.uk) [www.gov.uk/government/organisations/department-for-business-energy-and-industrial-strategy](http://www.gov.uk/government/organisations/department-for-business-energy-and-industrial-strategy)

#### National Farmers Union (NFU)

Tel: 024 7685 8500  
[www.nfuonline.com](http://www.nfuonline.com)

#### Department for Transport (DfT)

Tel: 0300 330 3000  
[www.gov.uk/government/organisations/department-for-transport](http://www.gov.uk/government/organisations/department-for-transport)  
<https://forms.dft.gov.uk/contact-dft-and-agencies/>

#### National Farmers Union Scotland (NFUS)

Tel : 0131 472 4000  
[www.nfus.org.uk](http://www.nfus.org.uk) [info@nfus.org.uk](mailto:info@nfus.org.uk)

#### Driver and Vehicle Standards Agency

#### Red Tractor Farm Assurance

Tel: 0300 123 9000  
[www.gov.uk/contact-dvsa/y](http://www.gov.uk/contact-dvsa/y)

Tel: 020 7630 3320  
[www.redtractor.org.uk](http://www.redtractor.org.uk)

**Environment Agency**

Tel: 03708 506 506  
[www.gov.uk/government/organisations/environment-agency](http://www.gov.uk/government/organisations/environment-agency)  
[enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

**Road Haulage Association (RHA)**

Tel: 01932 838 910  
[www.rha.uk.net](http://www.rha.uk.net)

**Fertilizers Europe**

Tel: 00 32 2 675 35 50  
[www.fertilizerseurope.com](http://www.fertilizerseurope.com)  
[main@fertilizerseurope.com](mailto:main@fertilizerseurope.com)

**United Kingdom Accreditation Service (UKAS)**

Tel: 01784 429000 (t)  
[www.ukas.com](http://www.ukas.com)  
[info@ukas.com](mailto:info@ukas.com)

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**7 Guidance for compliance with the Dangerous Substances (Naming And Marking Of Sites) (NAMOS) Regulations**

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**7 Guidance for compliance with the Dangerous Substances (Naming And Marking Of Sites) (NAMOS) Regulations**

1. Under the Dangerous Substances (Notification And Marking Of Sites) (NAMOS) Regulations 1990, as amended on 6th April 2013, sites which store certain fertilisers have a requirement to notify the relevant authorities and display warning signage at the site entrances.
2. **Sites which hold 25 tonnes of material classified as being 'Dangerous Substances' are required to notify both the HSE and local Fire and Rescue Service.** This includes all fertilisers which display the hazardous classification symbol for 5.1 oxidising substances under the Carriage of Dangerous Goods regulations (ADR). (This will include Ammonium Nitrate based products).
3. Sites which hold 25 tonnes of material classified as being 'Dangerous Substances' are required to place a **'Dangerous Substance' warning symbol at all access points to the site.**
4. **A person in control of a site which holds a total quantity of 150 tonnes or more of 'relevant ammonium nitrate mixtures'** (see Appendix 3 definitions) **are required to notify the Fire and Rescue Service for the area in which the site is located.** (There is no requirement to notify the HSE).

A typical ratio would be 25.5.5 which equates to 25% N, 5% P and 5% K. In this example the Nitrogen would contain both Nitric Nitrogen (N) 12.5%, and Ammoniacal Nitrogen (N) 12.5%, thus making the total Nitrogen (N) content 25%.