1964 No. 142

AGRICULTURE

The Fertilisers and Feeding Stuffs (Amendment) Regulations 1964

Made - - - -	30*th January* 1964
Laid before Parliament	7*th February* 1964
Coming into Operation	1*st March* 1964

The Minister of Agriculture, Fisheries and Food and the Secretary of State, acting jointly, in exercise of the powers vested in them by section 23 of the Fertilisers and Feeding Stuffs Act 1926(a) and of all other powers enabling them in that behalf, and after consultation with the advisory committee constituted under the said section, hereby make the following Regulations:—

Citation and Commencement

1.—(1) These Regulations may be cited as the Fertilisers and Feeding Stuffs (Amendment) Regulations 1964. The Fertilisers and Feeding Stuffs Regulations 1960(b) (hereinafter referred to as "the principal Regulations"), the Fertilisers and Feeding Stuffs (Amendment) Regulations 1962(c) and these Regulations may be cited together as the Fertilisers and Feeding Stuffs Regulations 1960 to 1964.

(2) These Regulations shall come into operation on 1st March 1964.

Amendment of Regulation 6 of the Principal Regulations

2. Regulation 6 of the principal Regulations shall be amended as follows:—

(*a*) the word "or" where it appears at the end of sub-paragraph (*c*)(ii) shall be deleted,

(*b*) at the end of sub-paragraph (*d*)(iii) there shall be added the word "or" and

(*c*) immediately after sub-paragraph (*d*) there shall be added the following sub-paragraph—

"(*e*) where the parcel is in a bulk container or tanker, either

(i) on the bulk container or tanker, or on a label securely attached thereto, or

(ii) otherwise in such a manner that the mark shall be readily apparent and unequivocally associated with the parcel;".

(a) 16 & 17 Geo. 5. c. 45. (b) S.I. 1960/1165 (1960 I, p. 185).
(c) S.I. 1962/ 2713 (1962 III, p. 3686).

Amendment of the Schedules to the Fertilisers and Feeding Stuffs Act 1926

3. The First, Second and Fourth Schedules to the Fertilisers and Feeding Stuffs Act 1926, as substituted by the principal Regulations and respectively set out in the First, Second and Fourth Schedules thereto, are hereby varied as follows:—

(*a*) In Part I of the First Schedule

(i) immediately after the items

"Nitrate of soda	Amount of nitrogen."

there shall be inserted the items

"Nitrogenous gas liquor; ammoniacal gas liquor: gas liquor.	Amount of nitrogen"

(ii) in the item in the first column

"Potassium salts used as fertilisers, including kainit, sylvinite, potash manure salt, muriate of potash, sulphate of potash and sulphate of potash-magnesia."

immediately after the words "Potassium salts" there shall be added the words "not otherwise mentioned in this Part of this Schedule", and

(iii) in the item in the second column

"Amount of nitrogen. Amount of free acid if in excess of 0·025%." for the figures "0·025%" there shall be substituted the figures "0·05%".

(*b*) In Part II of the Second Schedule for the items in the first column—

"Dried grass; Dried grass (maintenance quality); Dried green fodder crops; Dried green roughage	as defined in the Fourth Schedule"

there shall be substituted the item

"Artificially dried grass, clover, lucerne, sainfoin, green cereals or any other artificially dried green crops or a mixture of any of them".

(*c*) In Part I of the Fourth Schedule

(i) for the items

"Bone meal	Commercially pure bone, raw or degreased, which has been ground or crushed, and which contains not less than 3·5% nitrogen and not less than 20% phosphoric acid.
Bone meal, Grade II ...	Commercially pure bone, raw or degreased, which has been ground or crushed, and which contains less than 3·5% nitrogen or less than 20% phosphoric acid."

there shall be substituted the items

"Bone meal	Commercially pure bone, raw or degreased, which has been ground or crushed."

(ii) immediately after the items

"Nitrate of soda ...	Sodium nitrate for fertilising purposes."

there shall be inserted the items

"Nitrogenous gas liquor; ammoniacal gas liquor; gas liquor.	Ammoniacal liquor produced in the carbonisation of coal and free from tar visible to the naked eye, containing less than 0·4% thiocyanate as CNS.",

(iii) for the item in the first column

"Potassic nitrate of soda"

there shall be substituted the item

"Potassic nitrate of soda; Chilean potash nitrate", and

(iv) for the item in the second column

"Commercially pure bone from which nitrogen has been removed by steam."

there shall be substituted the item

"Commercially pure bone, degreased and ground or crushed, from which the nitrogen has been partly or wholly removed by steam.".

(*d*) In Part II of the Fourth Schedule

(i) for the items

"Alfalfa (lucerne) meal ...	Alfalfa (lucerne), as grown, dried and ground, to which no other matter has been added."

there shall be substituted the items

"Alfalfa meal; lucerne meal.	Alfalfa (lucerne), as grown, dried by natural means and ground, to which no other matter has been added.",

(ii) for the item in the second column

"Whole clover, as grown, dried and ground, to which no other matter has been added."

there shall be substituted the item

"Whole clover, as grown, dried by natural means and ground, to which no other matter has been added.",

(iii) in the item in the second column, opposite the words "Dried grass" in the first column, and beginning with the words "Any product which" there shall be inserted after the words "Any product" the words "whether ground or not",

(iv) in the item in the second column, opposite the words "Dried green fodder crops" in the first column, and beginning with the words "Any product which" there shall be inserted after the words "Any product" the words "whether ground or not",

(v) in the item in the second column, opposite the words "Dried green roughage" in the first column, and beginning with the words "Any product which" there shall be inserted after the words "Any product" the words "whether ground or not", and

(vi) for the item in the second column

"The product obtained by grinding commercially pure steamed bone."

there shall be substituted the item

"Commercially pure bone, degreased and ground or crushed, from which the nitrogen has been partly or wholly removed by steam.".

Amendment of the Schedules to the Principal Regulations

4. The Sixth, Seventh, Eighth and Ninth Schedules to the principal Regulations are hereby amended as follows:—

(*a*) In Part II of the Sixth Schedule

(i) in sub-paragraph 4(*a*) the word "from" where it appears between the words "of" and "about" and the words "to about half-a-gallon" shall be deleted,

(ii) in sub-paragraph 4(*b*) at the end of the heading immediately after the word "quart" there shall be added the words "and not more than 40 gallons",

(iii) in sub-paragraph 4(*b*) the word "from" where it appears between the words "of" and "about" and the words "to about half-a-gallon" shall be deleted, and

(iv) immediately after sub-paragraph 4(*b*) there shall be added the following sub-paragraph

"(*c*) *In bulk containers or tankers containing more than* 40 *gallons*

If it appears that the liquid is not homogeneous, the contents shall be well stirred or otherwise agitated to ensure thorough mixing. The contents shall be sampled by slowly lowering an open tube perpendicularly into the container. The tube must be long enough to reach the bottom of the container. The upper end of the tube shall then be closed and the contents transferred to glass bottles with either well fitting ground-glass stoppers or airtight plastic screw stoppers. The process shall be repeated, if necessary, until about one quart has been withdrawn.".

(*b*) In the Seventh Schedule

(i) in paragraph 3.5 at the end of the heading immediately after the word "SALTS" there shall be added the words "AND NITROGEN IN NITROGENOUS GAS LIQUOR, AMMONIACAL GAS LIQUOR OR GAS LIQUOR",

(ii) in paragraph 5.22 the word "ammonium" shall be deleted,

(iii) in paragraph 5.32 the word "ammonium" shall be deleted, and

(iv) at the end of the Schedule there shall be added the following paragraph—

"10. DETERMINATION OF THIOCYANATE IN AMMONIACAL GAS LIQUOR; NITROGENOUS GAS LIQUOR; GAS LIQUOR

10.1 REAGENTS:

Iron alum solution—Saturated aqueous solution of ferric ammonium sulphate.

Copper sulphate solution—Dissolve 10g. of copper sulphate in water and dilute to 100ml.

Sodium hydroxide solution—Dissolve 4g. of sodium hydroxide (free from chloride) in water and dilute to 100ml.

Nitric Acid 50%—Dilute 50ml. of concentrated nitric acid with water, cool and dilute to 100 ml.

0·1N Silver nitrate solution

0·1N Potassium thiocyanate solution

Acid sodium sulphite or potassium metabisulphite solution—Saturated aqueous solution

Sulphuric acid 10% solution—Add 10ml. of concentrated sulphuric acid to 50ml. of water, cool and dilute to 100ml.

Lead carbonate of reagent quality.

10.2 PROCEDURE

Place 25 or 50 ml. of the liquor in a 100ml. beaker and add 2g. of lead carbonate. Stir well and allow to stand for ten minutes (in order to remove sulphite). Filter the solution into a 150ml. beaker, washing the beaker and the filter twice with distilled water. Slightly acidify the filtrate with sulphuric acid solution, warm to about 40°C and add a few drops of iron alum solution to clarify the liquor and remove any ferrocyanide which may be present. Filter the solution through paper pulp with the aid of a suction pump and wash the beaker and the filter with water. To the filtrate contained in a 250ml. flask add 10 drops of acid sodium sulphite or potassium metabisulphite solution, and heat the mixture to about 60°C. Add an excess of copper sulphate solution and continue the heat to incipient boiling. Allow to stand from five to ten minutes with occasional agitation. Filter and well wash the beaker and the filter with hot water until the washings remain colourless upon the addition of a drop of ferrocyanide solution. Pierce the filter paper and wash the residue back into the original flask, and finally wash with 25ml. of sodium hydroxide solution. Warm the solution to about 50°C to decompose the cuprous salt and add a few drops of iron alum solution to promote coagulation. Filter the solution through paper pulp, well wash the flask and the filter with water. Acidify the filtrate with 5ml. of nitric acid solution, add two drops of iron alum solution and titrate with 0·1N silver nitrate.

$$\text{Thiocyanate as CNS in g. per 100ml.} = \frac{0{\cdot}58 \times \text{ml. } 0{\cdot}1\text{N } AgNO_3\text{"}}{\text{mls. liquor taken}}$$

(*c*) In the Eighth Schedule for paragraph 7.211 there shall be substituted the paragraph—

"7.211 WHEN THE SUBSTANCE IS IN SOLID FORM

Weigh to the nearest centigram about 10g. of the sample or a sufficient quantity to contain about 2g. of sugar. Grind in a mortar with hot water (temperature not to exceed 60°C) and transfer to a 500 ml. volumetric flask, using in all about 400 ml. of water. Shake

the flask at intervals during 30 minutes. Add 5 ml. of potassium oxalate solution to the contents of the flask, followed by 5 ml. of zinc acetate solution; mix well and then add 5 ml. of potassium ferrocyanide solution, make up with water to 500 ml. at the correct temperature, mix well and filter. Determine the sugar in 100 ml. of the filtrate by the method described in paragraph 7.22.".

(*d*) In Part I of the Ninth Schedule

(i) for the item in the second column

"Nitrogen, 0·5%; phosphoric acid, 1%, provided that these limits of variation shall not operate so as to permit the application of the name "bone meal" to any article containing less than 3·5% nitrogen or less than 20% phosphoric acid."

there shall be substituted the item

"Nitrogen 0·5%, phosphoric acid 1·5%.", and

(ii) at the end of Part I there shall be added the following items—

"34.	Nitrogenous gas liquor; ammoniacal gas liquor; gas liquor.	Nitrogen, 0·3%".

In witness whereof the Official Seal of the Minister of Agriculture, Fisheries and Food is hereunto affixed on 29th January 1964.

(L.S.) *Christopher Soames,*
Minister of Agriculture, Fisheries and Food.

Given under the seal of the Secretary of State for Scotland on 30th January 1964.

(L.S.) *Michael Noble,*
Secretary of State for Scotland.

EXPLANATORY NOTE

(This note is not part of the Regulations, but is intended to indicate their general purport.)

These Regulations amend the Fertilisers and Feeding Stuffs Regulations 1960. Nitrogenous gas liquor is now brought within the ambit of the Fertilisers and Feeding Stuffs Act 1926 and the Regulations made under it and a method of analysis is prescribed. The definitions in the Regulations of certain fertilisers and feeding stuffs have been revised and simplified, certain of the methods of analysis have also been revised and the particulars to be given on a sale of sulphate of ammonia have been varied. Provision is made for the marking of bulk containers or tankers containing liquid fertilisers and for taking samples from them.