

## AGENDA

# Terms & Definitions Committee AAPFCO 2016 Winter Annual Meeting Albuquerque, NM February 22, 2016 (1 – 4:30 pm)

## CALL TO ORDER

1. **Welcome, roll call of committee members and introduction of guests.** (5 minutes)  
Facilitator: Katie Laney
2. **Agenda review and approval** (5 minutes) Chair
3. **Annual Meeting Report Review and Approval** (5 minutes) Chair
4. **AAPFCO Membership Voting Items at Winter Annual 2016, Terms and Definitions can act on these depending on the outcome of the Membership vote.** Available to delete, stay tentative, official. (20 minutes) Chair

**T-93 Soluble Silicon** – is that portion of the silicon contained in non-liquid fertilizer materials and/or beneficial compounds that is soluble in a mixture of 0.094 Molar Sodium Carbonate and 0.20 Molar Ammonium Nitrate and is a measure of monosilicic acid by a validated or approved method. It is expressed as  $H_4SiO_4$

**T-70 Enhanced Efficiency Fertilizer** – Describes fertilizer products with characteristics that allow increased nutrient availability and reduce potential of nutrient losses to the environment e.g., gaseous losses, leaching or runoff when compared to an appropriate reference product.

**T-71 Slow Release** – Are fertilizer products that release (convert to a plant-available form) their plant nutrients at a slower rate relative to a “reference soluble” product. Examples of slow-release products are coated or occluded, which control the release of soluble nutrients through coating or occlusion of the water soluble nutrient compounds, water insoluble, or slowly available water-soluble.

**BSC-1 Calcium Silicate** – Is derived from naturally occurring minerals such as Wollastonite or may be synthetically derived, having the principal formula of  $CaSiO_3$ , and is a source of Calcium and Soluble Silicon.

**N-62 Feather Meal** - Consisting of ground and processed bird feathers, a byproduct of poultry processing.

### Working Group Recommendation:

**Feather Meal** - Ground and dried poultry feathers.

**Hydrolyzed Feather Meal** - The product resulting from the heating by steam under pressure of undecomposed feathers from slaughtered poultry.

**T-77 Low Phosphate Fertilizer** – Means fertilizer products intended for new or established urban turf or lawns, with available phosphate levels equal to or above 0.5%  $P_2O_5$  and an application rate not to exceed 0.25 lb  $P_2O_5$ /1000 sq ft/application and 0.5 lb  $P_2O_5$ /1000 sq ft/year.

**Calcium Polysaccharide** – a complex formed by the reaction of calcium with polysaccharide long chain carbohydrates.

**Iron EDDHSA** – Is an iron(III) chelate of ethylenediamine di-(2-hydroxyl-5sulfophenylacetic) acid and is commonly expressed as FeEDDHSA.

**UAN/Calcium Solutions** – Manufactured as liquid mixtures of UAN solution and water soluble calcium solutions containing calcium chloride or calcium nitrate. If sufficient water soluble calcium is added to produce a calcium to urea nitrogen ratio equal to or greater than 0.2, the resulting product can be considered an enhanced efficiency fertilizer since the soluble calcium mitigates ammonia volatilization loss when compared to UAN, the enhanced efficiency reference product standard

**BSC-7 Calcium Magnesium Silicates** - are compounds derived from fused silicates, mined materials, or synthetically manufactured materials contained in fertilizer, fertilizer materials, fertilizer blends, and/or beneficial compounds and are sources of calcium and magnesium when extracted with a validated method that includes hydrochloric acid. They may also be a source of Soluble Silicon.

**N-47 Soybean Meal** – Is the product remaining after extracting most of the oil from whole soybeans.

5. **Old Business ( hours) Chair** Available to move to tentative, table, or no action

**Managing required statements for labeling of naturally occurring nutritive metals derived from phosphate materials** – (10 minutes)

Working Group: Ben Jones, Eddies Simmons, Don Wolf, Dale Woods, Frank Sikora, Vicky Childs, Michelle shot, Betty Joe Evans, Mary Provance-Bowley, John yzenas, Bill Hall, Bill Easterwood, Jack Peters, Sandy Simon, Kerry Cooner

Working Group Recommendation:

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**Phosphorous acid and its potassium and calcium salts** – Verdesian Life Sciences, Gary Orr (New material located on the AAPFCO secure site)

Proposed Definition: Are phosphite fertilizer products that, when applied to soil, provide phosphate at a slower rate relative to phosphate based fertilizers. (20 minutes)

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**Maleic – itaconic copolymer and its salts** – enhanced efficiency fertilizer products for use in nitrogen or phosphorus management. (20 minutes) – Verdesian Life Sciences, Gary Orr (New material located on the AAPFCO secure site)

Proposed Definitions:

- The partial Calcium Salt of Maleic-Itaconic Copolymer – A substance composed of a partial calcium salt of Maleic-Itaconic Copolymer that stabilizes soil nitrogen when applied on granular ammoniacal nitrogen fertilizers or mixed into liquid ammoniacal nitrogen fertilizers
- The partial Ammonium Salt of Maleic-Itaconic Copolymer – A substance that, when applied to mixed with liquid phosphate fertilizers, reduces the fixation of phosphorus in fertilizers derived from treated fertilizers in soil.

- The partial Sodium Salt of Maleic-Itaconic Copolymer – A substance that, when applied to liquid granular phosphate fertilizers, reduces the fixation of phosphorus in fertilizers in soil.

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**Biosolids (Aquaculture)** – Florida Organic Aquaculture, Adam Hernandez (Secure Site)

Proposed Definition: A primary organic solid material produced by farming processes that can be beneficially recycled for its plant nutrient content and soil amending characteristics.

Aquaculture By-product - A solid material, primarily organic matter, produced by cultivating aquatic animals and plants. It can be beneficially recycled for its plant nutrient content and soil amending characteristics.

Below is the most up to date definition request:

Aquaculture By-product - A solid material, primarily organic matter, produced by cultivating aquatic animals and plants. It can be beneficially recycled for its ~~plant nutrient content and~~ soil amending characteristics.

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**N-(n-propyl) thiophosphoric triamide (NPPT)** – BASF, George Fountas (Secure Site)

Proposed Definition: Compound that is the normal propyl derivative of thiophosphoric triamides and is a urease inhibitor. CAS Number 916809-14-8. (20 minutes)

6. **New Business** – Proposed Definitions (40 minutes) Chair. Available to move to tentative, table, or no action

Potassium Sulphite – Michael Hojjatie, Tessenderlo Kerley (Submitted 10/20/15)

Proposed Definition: is a potash salt ( $K_2SO_3$ ) containing not less than 59% soluble  $K_2O$  soluble potash ( $K_2O$ ) and 20% S sulfur (S). It is often sold as an aqueous solution containing twenty-three percent (23%) soluble potash ( $K_2O$ ), and eight percent (8%) sulfur (S).

Label: <http://tirmsdev.com/Tessenderlo-Kerley-Inc-K-ROW-23-p44747#.ViUeBK2FMdU>

Methods of Analyses:

AOAC Official Method 958.02 (STBP), potassium in fertilizers for measurement of K  
AOAC Official Method 980.02, Sulfur in Fertilizers, Gravimetric Method, for analyses of S.

The product has a low salt index and has been recommended for in furrow use. It is safe to seedlings. This is a patented application.

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Ron Alexander – Proposing changes to T-33 Composting and T-34 Compost definitions. Proposed changes were given to control officials for review. Working group will need to be formed to review proposed changes, if needed. (Submitted 11/20/15)

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Sulfur – Bill Hall (Application on AAPFCO Secure Site) (Submitted 12/22/15)

S 13# Sulfur (S<sup>0</sup>) - Free sulfur in its elemental form. Sulfur particles that are less than 100μ can oxidize over time and are a source of slow release sulfur. If slow release sulfur is claimed, only the portion that is less than 100μ would be considered slow release.

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Gluconate – Lesley Lyle (ProPlus Products) application on AAPFCO Secure Site (Submitted 1/4/16)

Calcium Gluconate – Is a calcium chelate of gluconic acid, and is commonly expressed as Ca gluconate.

Magnesium Gluconate – is a magnesium chelate of gluconic acid, and is commonly expressed as Mg gluconate.

Manganese Gluconate – is a manganese chelate of gluconic acid, and is commonly expressed as Mn gluconate.

Iron Gluconate – is an iron chelate of gluconic acid, and is commonly expressed as Fe gluconate.

Zinc Gluconate – is a zinc chelate of gluconic acid, and is commonly expressed as Zn gluconate.

Boron Gluconate – is a boron chelate of gluconic acid, and is commonly expressed as B gluconate.

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GSSG – Masahiko Yamada, Kaneka Corporation (submitted 1/7/16)

Proposed Nitrogen source

Oxidized glutathione (GSSG), is a dimer of a tripeptide reduced glutathione (GSH), consisting of glycine, cysteine, and glutamic acid

7. **Next Steps** - Assignments and Agenda Items for next meeting (5 minutes) Chair