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## Regulation (EU) 2021/1165: Annex II

### 法规(EU) 2021/1165:附录二

#### Authorised fertilizers, soil conditioners and nutrients referred to in point (b) of Article 24(1) of Regulations EU 2018/848

#### 依据法规(EU) 2018/848 第 24(1)条(b)点授权的肥料和土壤调节剂和营养物质

In accordance with point 1.9.6 of Part I of Annex II to Regulation (EU) 2018/848, preparations of micro-organisms may be used to improve the overall condition of the soil or to improve the availability of nutrients in the soil or in the crops.

根据法规 (EU) 2018/848附录二第 I 部分第 1.9.6 点，微生物制剂可用于改善土壤的整体状况或提高土壤或作物中养分的可用性。

| Name 名称<br>Compound products or products containing only materials listed hereunder<br>混合产品或仅包含下列物质的产品               | Description, specific conditions and limits<br>描述、具体条件和限制  |
|--|--|
| Farmyard manure<br>农家肥   | product comprising a mixture of animal excrements and vegetable matter (animal bedding and feed material)<br>包含动物粪便和植物饲料(牲畜垫料和饲料材料)的混合产品<br><br>factory farming origin forbidden<br>禁止使用工业化来源的产品 |
| Dried farmyard manure and dehydrated poultry manure<br>干农家肥和脱水的禽类粪便  | factory farming origin forbidden<br>禁止使用工业化来源的产品   |
| Composted animal excrements, including poultry manure and composted farmyard manure included<br>动物粪便堆肥，包括禽类粪便和堆制的农家肥 | factory farming origin forbidden<br>禁止使用工业化来源的产品   |
| Liquid animal excrements<br>液态动物粪便   | use after controlled fermentation and/or appropriate dilution<br>在可控条件下发酵和/或适当稀释后使用，禁止使用工业化来源的产品。在可控条件下发酵和/或适当稀释后使用<br><br>factory farming origin forbidden<br>禁止使用工业化来源的产品                      |

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|---|---|
| <p>Composted or fermented bio-waste (Directive 2008/98/EC of the European Parliament and of the Council)</p> <p>堆肥或发酵的生物废弃物（欧洲议会和理事会指令 2008/98/EC）</p>                                  | <p>product obtained from separate bio-waste collection at source, which has been submitted to composting or to anaerobic fermentation for biogas production</p> <p>从源头单独收集的生物废弃物中获得的、经过堆制或沼气生产的厌氧发酵分离的产品</p> <p>only vegetable and animal bio-waste</p> <p>仅蔬菜和动物生物废弃物</p> <p>only when produced in a closed and monitored collection system, accepted by the Member State</p> <p>仅在封闭和受控制的收集系统中生产，并得到成员国认可时</p> <p>maximum concentrations in mg/kg of dry matter: cadmium: 0.7; copper: 70; nickel: 25; lead: 45; zinc: 200; mercury: 0.4; chromium (total): 70; chromium (VI): not detectable</p> <p>干物质中元素的最大含量(mg/kg)：镉：0.7；铜：70；镍：25；铅：45；锌：200；汞：0.4；总铬：70；铬(VI)：不得检出</p> |
| <p>Peat</p> <p>泥炭</p>   | <p>use limited to horticulture (market gardening, floriculture, arboriculture, nursery)</p> <p>仅限园艺用途（园艺、花卉栽培、树木栽培、苗圃）</p>  |
| <p>Mushroom culture wastes</p> <p>蘑菇培养废料</p>  | <p>the initial composition of the substrate shall be limited to products of this Annex</p> <p>基质的初始成分必须限于本附则中的产品</p>  |
| <p>Dejecta of worms (vermicompost) and insect frass-substrate mixture</p> <p>蠕虫粪便（蚯蚓堆肥）和昆虫粪便的基质混合物</p>  | <p>where relevant in accordance with Regulation (EC) No 1069/2009</p> <p>根据法规 (EC) 第1069/2009号的相关规定</p>   |
| <p>Guano 海鸟粪</p>  |   |
| <p>Composted or fermented mixture of vegetable matter</p> <p>植物材料堆制或发酵的混合物</p>  | <p>product obtained from mixtures of vegetable matter, which have been submitted to composting or to anaerobic fermentation for biogas production</p> <p>从植物物质混合物中获得的、经过堆肥或厌氧发酵产生的沼气产品</p>  |
| <p>Biogas digestate containing animal by-products co-digested with material of plant or animal origin as listed in this Annex</p> <p>沼气沼渣，含有本附录所列植物或动物来源材料共消化的动物副产品</p>                 | <p>animal by-products (including by-products of wild animals) of category 3 and digestive tract content of category 2 (categories as defined in Regulation (EC) No 1069/2009 of the European Parliament and of the Council)</p> <p>第3类动物副产品（包括野生动物的副产品）和第2类消化道含量的（欧洲议会和欧盟理事会（EC）第1069/2009号法规定义的类别）</p> <p>factory farming origin forbidden</p> <p>禁止使用工业化来源的产品</p> <p>the processes have to be in accordance with Commission Regulation (EU No 142/2011)</p> <p>过程必须符合欧盟委员会法规（欧盟第142/2011号）</p> <p>not to be applied to edible parts of the crop</p> <p>不适用于作物的可食部分</p>  |

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|--|---|
| Products or by-products of animal origin as below:<br>下列动物来源的产品和副产品:<br>Blood meal 血粉<br>Hoof meal 蹄粉<br>Horn meal 角粉<br>Bone meal or degelatinised bone meal 骨粉或去角骨粉<br>Fish meal 鱼粉<br>Meat meal 肉粉<br>Feather, hair and skin meal 'chiquette'<br>羽毛、毛发和皮粉<br>Wool 羊毛<br>Fur (1) 毛皮 (1)<br>Hair 头发<br>Dairy products 乳制品<br>Hydrolysed proteins (2) 水解蛋白 (2) | (1) Maximum concentration in mg/kg of dry matter of chromium (VI): not detectable<br>干物质中铬(VI)的最大含量(mg/kg): 不得检出<br><br>(2) Not to be applied to edible parts of the crop<br>作物的不可食用部分  |
| Products and by-products of plant origin for fertilisers<br>植物来源的产品和副产品用作肥料  | e.g.: oilseed cake meal, cocoa husks, malt culms<br>油籽饼(粕)、可可壳、麦芽秆  |
| Hydrolysed proteins of plant origin<br>植物源水解蛋白   |   |
| Algae and algae products<br>藻类和藻类产品  | as far as directly obtained by: 仅通过下列途径直接获得:<br>(i) physical processes including dehydration, freezing and grinding<br>物理过程, 包括脱水、冷冻和研磨<br>(ii) extraction with water or aqueous acid and/or alkaline solution<br>用水或酸和/或碱水溶液萃取<br>(iii) fermentation 发酵<br><br>only from organic or collected in a sustainable way in accordance with point 2.4 of Part III of Annex II to Regulation (EU) 2018/848<br>仅来自有机物或根据法规 (EU) 2018/848附录二第III部分第2.4点以可持续方式收集 |
| Sawdust and wood chips<br>锯末和木屑  | wood not chemically treated after felling<br>砍伐后未经化学处理的木材   |
| Composted bark<br>堆沤树皮   | wood not chemically treated after felling<br>砍伐后未经化学处理的木材   |
| Wood ash<br>木灰   | from wood not chemically treated after felling<br>来自砍伐后未经化学处理的木材  |

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| <p>Soft ground rock phosphate<br/>磷酸盐矿石</p>   | <p>product obtained by grinding soft mineral phosphates and containing tricalcium phosphate and calcium carbonate as essential ingredients minimum content of nutrients (percentage by weight): 25 % P<sub>2</sub>O<sub>5</sub><br/>通过研磨软矿物磷酸盐获得的产品，含有磷酸三钙和碳酸钙为主要成分的营养素的最低含量（重量百分比）：25% P<sub>2</sub>O<sub>5</sub>（五氧化二磷）</p> <p>phosphorus expressed as P<sub>2</sub>O<sub>5</sub> soluble in mineral acids, at least 55 % of the declared content of P<sub>2</sub>O<sub>5</sub> being soluble in 2 % formic acid<br/>磷以可溶于无机酸的P<sub>2</sub>O<sub>5</sub>计，至少有55%声明含量的P<sub>2</sub>O<sub>5</sub>可溶于2%的甲酸</p> <p>particle size 颗粒直径:<br/>- at least 90 % by weight able to pass through a sieve with a mesh of 0,063 mm<br/>至少 90% 的重量能够通过 0.063 毫米的网筛<br/>- at least 99 % by weight able to pass through a sieve with a mesh of 0,125 mm<br/>至少 99% 的重量能够通过 0.125 毫米的网筛</p> <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起，适用法规 (EU) 2019/1009 中规定的污染物相关限值</p>  |
| <p>Aluminium-calcium phosphate<br/>铝钙磷酸盐</p>  | <p>product obtained in amorphous form by heat treatment and grinding, containing aluminium and calcium phosphates as essential ingredients minimum content of nutrients (percentage by weight): 30 % P<sub>2</sub>O<sub>5</sub><br/>通过热处理和研磨获得的无定形产品，含有磷酸铝和磷酸钙为主要成分的营养素的最低含量（重量百分比）：30% P<sub>2</sub>O<sub>5</sub></p> <p>phosphorus expressed as P<sub>2</sub>O<sub>5</sub> soluble in mineral acids, at least 75 % of the declared content of P<sub>2</sub>O<sub>5</sub> being soluble in alkaline ammonium citrate (Joulie) particle size:<br/>磷以可溶于无机酸的P<sub>2</sub>O<sub>5</sub>计，至少有75%声明含量的P<sub>2</sub>O<sub>5</sub>可溶于碱性柠檬酸铵，颗粒直径:<br/>- at least 90 % by weight able to pass through a sieve with a mesh of 0,160 mm<br/>至少 90% 的重量能够通过 0.160 毫米的网筛<br/>- at least 98 % by weight able to pass through a sieve with a mesh of 0,630 mm<br/>至少 98% 的重量能够通过 0.630 毫米的网筛</p> <p>until 15 July 2022, cadmium content less than or equal to 90 mg/kg of P<sub>2</sub>O<sub>5</sub>; from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>到2022年7月15日，镉含量≤ 90 mg/kg (P<sub>2</sub>O<sub>5</sub>) ;<br/>自2022年7月16日起，适用法规 (EU) 2019/1009 中规定的污染物相关限值</p> <p>Use limited to basic soils (pH &gt; 7.5)<br/>仅限于在碱性土壤中使用(pH &gt; 7.5)</p> |

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| <p>Basic slag (Thomas phosphates or Thomas slag)<br/>碱性矿渣 (托马斯磷酸盐或托马斯炉渣)</p>  | <p>product obtained in iron-smelting by treatment of the phosphorus melts and containing calcium silicophosphates as its essential ingredients<br/>炼铁时经磷熔体处理而得的以硅磷酸钙为主要成分的产品</p> <p>minimum content of nutrients (percentage by weight): 12 % P<sub>2</sub>O<sub>5</sub><br/>营养素的最低含量 (重量百分比) : 12% P<sub>2</sub>O<sub>5</sub></p> <p>phosphorus expressed as phosphorus pentoxide soluble in mineral acids, at least 75 % of the declared content of phosphorus pentoxide being soluble in 2 % citric acid<br/>磷以可溶于无机酸的P<sub>2</sub>O<sub>5</sub>计, 至少有75%声明含量的P<sub>2</sub>O<sub>5</sub>可溶于2%的柠檬酸</p> <p>or 10 % P<sub>2</sub>O<sub>5</sub> 或10 % P<sub>2</sub>O<sub>5</sub>,</p> <p>phosphorus expressed as phosphorus pentoxide soluble in 2 % citric acid 磷以可溶于2%的柠檬酸的P<sub>2</sub>O<sub>5</sub>计</p> <p>particle size 颗粒直径:</p> <ul style="list-style-type: none"> <li>- at least 75 % able to pass through a sieve with a mesh of 0,160 mm<br/>至少 75 %能够通过 0.160 毫米的网筛</li> <li>- at least 96 % able to pass through a sieve with a mesh of 0,630 mm<br/>至少 96% 能够通过 0.630 毫米的网筛</li> </ul> <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值</p> |
| <p>Crude potassium salt<br/>粗钾盐</p>   | <p>product obtained from crude potassium salts<br/>从粗制钾盐获得的产品</p> <p>minimum content of nutrients (percentage by weight) 营养素最低含量 (重量百分比) : 9 % K<sub>2</sub>O (氧化钾)</p> <p>potassium expressed as water- soluble K<sub>2</sub>O<br/>钾以水溶性 K<sub>2</sub>O 计</p> <p>2 % MgO (氧化镁)</p> <p>magnesium in the form of water- soluble salts, expressed as magnesium oxide<br/>水溶性盐形式的镁, 以氧化镁计</p> <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值</p>  |
| <p>Potassium sulphate, possibly containing magnesium salt<br/>硫酸钾, 可能含有镁盐</p>   | <p>product obtained from crude potassium salt by a physical extraction process, containing possibly also magnesium salts<br/>通过物理过程提取从粗钾盐中获得的产品, 可能也含有镁盐</p>  |
| <p>Stillage and stillage extract<br/>蒸馏或蒸馏提取物</p>   | <p>ammonium stillage excluded<br/>不包括含铵蒸馏物</p>  |

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|---|--|
| Calcium carbonate, for instance: chalk, marl, ground limestone, Breton ameliorant (maerl), phosphate chalk<br>碳酸钙, 例如: 白垩、泥灰岩、基质石灰石、布列塔尼改良剂、(粉煤灰)、磷酸盐白垩 | only of natural origin<br>仅天然来源  |
| Mollusc waste<br>软体动物废弃物  | only from organic aquaculture or sustainable fisheries, in accordance with Article 2 of Regulation (EU) No 1380/2013<br>仅来自于根据法规 (EU) 1380/2013 第 2 条定义的有机水产养殖或可持续渔业   |
| Egg shells<br>蛋壳  | factory farming origin forbidden<br>禁止工业化养殖来源  |
| Magnesium and calcium carbonate<br>碳酸钙镁   | only of natural origin 仅限于天然来源<br>e.g. magnesian chalk, ground magnesium, limestone<br>如: 镁质白垩、镁矿石粉, 石灰石等  |
| Magnesium sulphate (kieserite)<br>硫酸镁盐(硫酸镁石)  | only of natural origin<br>仅限于天然来源  |
| Calcium chloride solution<br>氯化钙溶液  | only for foliar treatment of apple trees, to prevent deficit of calcium<br>仅用于为防止苹果树缺钙的叶面喷施处理  |
| Calcium sulphate (gypsum)<br>硫酸钙(石膏)  | product of natural origin containing calcium sulphate at various degrees of hydration<br>含有不同水合程度硫酸钙的天然产品<br><br>minimum content of nutrients (percentage per weight)<br>营养素最低含量 (重量百分比)<br>25 % CaO 氧化钙<br>35 % SO <sub>3</sub> 三氧化硫<br>calcium and sulphur expressed as total CaO + SO <sub>3</sub><br>钙和硫以总 CaO + SO <sub>3</sub> 计<br><br>fineness of grind 研磨细度:<br>- at least 80 % to pass through a sieve with a 2 mm mesh width<br>至少 80 % 能通过 2 毫米的网筛<br>- at least 99 % to pass through a sieve with a 10 mm mesh width<br>至少 99 % 能通过 10 毫米的网筛<br><br>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值 |
| Industrial lime from sugar production<br>来源于糖生产中的工业石灰   | by-product of sugar production from sugar beet and sugar cane<br>来源于甜菜和甘蔗制糖的副产品  |
| Industrial lime from vacuum salt production<br>来自真空制盐生产的工业石灰  | by-product of the vacuum salt production from brine found in mountains<br>来源于山区盐水的真空盐生产的副产品  |
| Elemental sulphur<br>硫  | from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值  |



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|--|--|
| <p>Inorganic Micronutrient Fertilisers<br/>无机微量肥料</p>  | <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值</p>  |
| <p>Sodium chloride<br/>氯化钠</p>   |  |
| <p>Stone meal, clays and clay materials<br/>石粉、粘土及粘土材料</p>   |  |
| <p>Leonardite (Raw organic sediment rich in humic acids)<br/>风化褐煤 (富含腐殖酸的原始有机沉积物)</p>  | <p>only if obtained as a by-product of mining activities<br/>仅从采矿活动的副产品获得</p>  |
| <p>Humic and fulvic acids<br/>腐殖酸和黄腐酸 (富里酸)</p>  | <p>only if obtained by inorganic salts/solutions excluding ammonium salts; or obtained from drinking water purification<br/>仅通过无机盐/溶液 (铵盐除外) 获得; 或从饮用水净化中获得</p>  |
| <p>Xylite<br/>铁石棉</p>  | <p>only if obtained as a by-product of mining activities (e.g. by-product of brown coal mining)<br/>仅限于采矿工程的副产品 (例如: 褐煤开采的副产品)</p>   |
| <p>Chitin (Polysaccharide obtained from the shell of crustaceans)<br/>几丁质 (从甲壳类动物的壳中获得的多糖)</p>   | <p>obtained from organic aquaculture or from sustainable fisheries, in accordance with Article 2 of Regulation (EU) No 1380/2013<br/>仅来自于根据法规 (EU) 1380/2013 第 2 条定义的有机水产养殖或可持续渔业</p>  |
| <p>Organic<sup>(1)</sup> rich sediment from fresh water bodies formed under exclusion of oxygen (e.g. sapropel)<br/>在排除氧(1)的情况下从淡水水体形成的富含有机物的沉积物 (例如腐泥)</p> <p><sup>(1)</sup> Here 'organic' is used in the sense of organic chemistry, not organic farming<br/>这里的“有机”是指有机化学, 而不是有机农业</p> | <p>only organic sediments that are by-products of fresh water body management or extracted from former freshwater areas<br/>只有来源于淡水水体管理的副产品或从原淡水地区提取的有机沉积物</p> <p>when applicable, extraction should be done in a way to cause minimal impact on the aquatic system<br/>在适用的情况下, 提取应该以对水生系统影响最小的方式进行</p> <p>only sediments derived from sources free from contaminations of pesticides, persistent organic pollutants and petrol like substances<br/>仅源于不受农药, 持久性有机污染物和汽油类物质污染的沉积物</p> <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值</p> |
| <p>Biochar - pyrolysis product made from a wide variety of organic materials of plant origin and applied as a soil conditioner<br/>生物炭-由多种植物来源的有机材料制成的热解产品, 用作土壤改良剂</p>  | <p>only from plant materials, when treated after harvest only with product included in Annex I<br/>仅来自收获后使用附录一中所列产品处理的植物材料</p> <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值</p>   |

| <p align="center"><b>Name 名称</b></p> <p align="center"><b>Compound products or products containing only materials listed hereunder</b></p> <p align="center"><b>混合产品或仅包含下列物质的产品</b></p> | <p align="center"><b>Description, specific conditions and limits</b></p> <p align="center"><b>描述、具体条件和限制</b></p>  |
|---|---|
| <p>Recovered struvite and precipitated phosphate salts<br/>回收的鸟粪石和沉淀的磷酸盐</p>  | <p>from 16 July 2022, the relevant limits for contaminants set in Regulation (EU) 2019/1009 apply<br/>自2022年7月16日起, 适用法规 (EU) 2019/1009 中规定的污染物相关限值</p> <p>animal manure as source material cannot have factory farming origin<br/>动物粪便原料不得来源于工业化养殖</p> |
| <p>Sodium nitrate<br/>硝酸钠</p>   | <p>only for algae production on land in closed systems<br/>仅适用于陆地封闭系统中的藻类生产</p>   |
| <p>Potassium chloride (muriate of potash)<br/>氯化钾 (氯化钾)</p>   | <p>only of natural origin<br/>仅限于天然来源</p>   |
| <p>Selenium salts<br/>硒盐</p>  | <p>only in case of deficiency in the soils used for animal rearing, and/or grazing or for the production of feed crops<br/>仅当用于动物饲养和/或放牧或生产饲料作物的土壤缺乏时</p>   |