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(71) Applicant(s):

QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD. [CN/CN]; No. 53, Qinglonghe Road Huangdao District Qingdao, Shandong 266000 (CN) *(for all designated states)*

(72) Inventor(s):

LIAN, Lei; No. 53, Qinglonghe Road Huangdao District Qingdao, Shandong 266000 (CN)

ZHAO, De; No. 53, Qinglonghe Road Huangdao District Qingdao, Shandong 266000 (CN)

PENG, Xuegang; No. 53, Qinglonghe Road Huangdao District Qingdao, Shandong 266000 (CN)

JIN, Tao; No. 53, Qinglonghe Road Huangdao District Qingdao, Shandong 266000 (CN)

(54) Title (EN): CYPYRAFLUONE DIMETHYLAMINE SALT, PREPARATION METHOD THEREFOR AND USE THEREOF

(54) Title (FR): SEL DE CYPYRAFLUONE DIMÉTHYLAMINE, SON PROCÉDÉ DE PRÉPARATION ET SON UTILISATION

(54) Title (ZH): 环吡氟草酮二甲胺盐及其制备方法和用途

(57) Abstract:

(EN): The present invention relates to a Cypyrfluone dimethylamine salt, a preparation method therefor, and use thereof. The present invention specifically relates to a crystal form A of the Cypyrfluone dimethylamine salt, and the X-ray powder diffraction spectrum has characteristic peaks at diffraction angles 2θ of 6.6°, 9.5°, 10.4°, 12.5°, 12.9°, 13.2°, 15.0°, 15.5°, 16.1°, 16.4°, 16.8°, 18.3°, 19.0°, 19.8°, 20.5°, 22.3°, 23.8°, 24.3°, 25.5°, 25.9°, 26.8°, 27.5°, 28.5°, 28.9°, 29.6°, 30.8°, 32.0°, 33.2°, 34.6°, 35.8°, 36.8°, 37.2°, 38.5°, 40.1°, 41.0°, 41.6°, and 42.4°, wherein the 2θ error range is within $\pm 0.2^\circ$. The Cypyrfluone dimethylamine salt has good physical and chemical stability, high solubility and high bioactivity, and can be used for preventing common weeds in wheat fields.

(FR): La présente invention concerne un sel de cypyrfluone diméthylamine, son procédé de préparation et son utilisation. La présente invention concerne en particulier une forme cristalline A du sel de cypyrfluone diméthylamine, et le spectre de diffraction de rayons X sur poudre a des pics caractéristiques à des angles de diffraction 2θ de 6,6°, 9,5°, 10,4°, 12,5°, 12,9°, 13,2°, 15,0°, 15,5°, 16,1°, 16,4°, 16,8°, 18,3°, 19,0°, 19,8°, 20,5°, 22,3°, 23,8°, 24,3°, 25,5°, 25,9°, 26,8°, 27,5°, 28,5°, 28,9°, 29,6°, 30,8°, 32,0°, 33,2°, 34,6°, 35,8°, 36,8°, 37,2°, 38,5°, 40,1°, 41,0°, 41,6° et 42,4°, la plage d'erreur 2θ étant de $\pm 0,2^\circ$. Le sel de cypyrfluone diméthylamine a une bonne stabilité physico-chimique, une solubilité élevée et une grande bioactivité, et peut être utilisé pour prévenir des mauvaises herbes communes dans des champs de blé.

(ZH): 涉及一种环吡氟草酮二甲胺盐及其制备方法和用途,具体涉及环吡氟草酮二甲胺盐A晶型,其X-射线粉末衍射谱图在衍射角 2θ 为

6.6°、9.5°、10.4°、12.5°、12.9°、13.2°、15.0°、15.5°、16.1°、16.4°、16.8°、18.3°、19.0°、19.8°、20.5°、22.3°、23.8°、处具有特征峰,其中 2θ 误差范围在 $\pm 0.2^\circ$ 内。所述环吡氟草酮二甲胺盐物理化学稳定性好,溶解度大,生物活性较高,可用于小麦田常见杂草的防除。

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