

Material Safety Data Sheet

Section 1- chemical product and company identification

【Chemical Name】 Gardenia Blue (Gardenia Jasminoides Extract)

【Manufacturer Name】 Guangxi Shanyun Biochemical Science and Technology Co., Ltd.

【Manufacturer Address】 Luzhai County Economic Development Zone, Liuzhou, Guangxi, China.

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Section 2- Composition and Information on Ingredients

【Chemical Name】 Gardenia Blue

【CAS No.】 106441-42-3

【Source】 The blue color of the pigment extracted from the fruit of the gardenia is due to genipin, an aglycone discovered in 1960 which turns blue when combined with amino acids.

Section 3- hazards summarizing

Gardenia blue is obtained by treating the extract of gardenia fruit and the protein with food enzymes. Gardenia belongs to the first batch Medicinal and Edible Plants which is announced by China 's Ministry of Health, non-toxic harmless , non-hazardous.

Section 4- Handling and Storage

【Operation Notes】 The operator must go through specialized training and operate strictly adherence to rules;

【Storage Precaution】 store the product in dry, sealed, shadow condition.

Section 5- physical and chemical properties

【Appearance】 Dark blue powder.

【PH value】 Its color tone is almost not affected by the changes of the the environment PH value. In PH = 4-11 range, the product can maintain

stable blue color.

【Solubility】 It is easily soluble in water, ethanol water liquor, not soluble in acetone and oil.

【Main purposes】 Natural colorant.

Section 6- Stability

【 Stability 】 The pigment has revivification-resistance and microbe-resistance, good stability to light, heat. In the pH range of 4-11, the color basically does not change. It also has good resistance to metal ions. It has a good dyeing ability to starch and protein.

Section 7- regulatory information

Production Safety Law (passed on June 29, 2002 in the twenty-eighth session of Ninth National People's Congress); Environmental Protection Law (passed on December 26, 1989 in the first session of the Seventh NPC Standing Committee); Regulation on Work Safety Licenses (passed on January 7, 2004 in the 52nd Meeting of the State Council).