

# **The Draft Amendment of Standards for Specification, Scope, Application and Limitation of Food Additives**

MOHW Food No.1071300246, 20 March, 2018

## **Appendix 2: Standards for Specification of Food Additives**

### **04. Bleaching Agents**

§ 04010

#### **Sulfur Dioxide**

**Synonyms** INS No. 220

#### **Definition**

C.A.S number 7446-09-5

Chemical formula  $\text{SO}_2$

Formula weight 64.07

Assay Not less than 99.9 %  $\text{SO}_2$  by weight

**Description** Colorless, non-flammable gas, with strong, pungent, suffocating odor. Its vapor density is 2.26 times that of air at atmospheric pressure and  $0^\circ\text{C}$ . The specific gravity of the liquid is about 1.436 at  $0^\circ\text{C}/4^\circ\text{C}$ . At  $20^\circ\text{C}$  the solubility is about 10 g of  $\text{SO}_2$  per 100 g of solution. It is normally supplied under pressure in containers in which it is present in both liquid and gaseous phases.

#### **Characteristics**

##### **Identification**

Test for sulfurous substances The sample blackens filter paper moistened with mercurous nitrate TS.

Oxidizing activity Expose a filter paper, treated with potassium iodate and starch TS, to the sample. A blue color is developed that fades on continued exposure.

**Purity**

Water Not more than 0.05%

<u>Non-volatile residue</u>	Not more than 0.05%
<u>Selenium</u>	Not more than 20 mg/kg
<u>Lead</u>	Not more than 5 mg/kg
<b>Category</b>	Food additives category (04)
<b>Functional uses</b>	Bleaching Agents