It deems appropriate to use Cyclamic acids and sodium or calcium salt of such acid as food additive which safety assessment and Acceptable Daily Intake has been done by the Joint FAO/WHO Expert Committee on Food Additives, JECFA.

By the virtue of provisions of Section 5 in the first phrase, and 6(1) (2) (4) (5) (6) (7) (9) and (10) of the Food Act B.E.2522 (1979), in which contain provisions in relation to the restriction of Rights and Liberties of the Persons, in respect of which Section 29 and in conjunction with Section 33, Section 41, Section 43 and Section 45 of the constitution of the Kingdom of Thailand so permit by virtue of provisions of law; the Minister of Public Health hereby issues the notification as follows:


Clause 2 Cyclamate is prescribed to be a food additive.

Clause 3 Cyclamate means Cyclohexylsulfamic acid or Cyclohexanesulfamic acid [CAS :100-88-9 INS No. 952] and Sodium or Calcium salt of Cyclohexylsulfamic acid or Cyclohexanesulfamic acid Cyclohexylsulfamic acid or Cyclohexanesulfamic acid such as Sodium cyclohexylsulfamate or Sodium cyclohexanesulfamate [CAS: 139-05-9, INS No. 952(iv)] or Calcium cyclohexylsulfamate or Calcium cyclohexanesulfamate [CAS: 139-06-0 INS No. 952(ii)]


Clause 5 Sodium cyclamate shall have the following standards and qualities:

**Chemical name:** Sodium cyclohexylsulfamate or Sodium cyclohexanesulfamate [CAS: 139-05-9, INS No. 952(iv)]

**Chemical formula:** C₆H₁₂NNaO₃S

**Formula weight:** 201.22

**Description:** White colourless crystals or crystalline powder
Identification:
- content not less than 98% and not more than 101% on dry basis
- Soluble in water, practically insoluble in ethanol
- Sodium passes test
- Precipitate formation
- To 10 ml of a 1 in 100 solution of the sample add 1 ml of hydrochloric acid, mix, add 1 ml of barium chloride. The solution remains clear, but upon the addition of 1 ml sodium nitrite, a white precipitate is formed
  - Loss on drying not more than 1.0% (at 105°C, 1 hr)
  - Purity Cyclohexylaminenot more than 10 mg/kg and

Dicyclohexylamine not more than 1 mg/kg

Impurity: Lead not more than 1 mg/kg

Packing and storage: keep in hermetically sealed container.

Quality and standards: reference to JECFA Monograph (2006) or if having any amendment, refer to latest updated version.

Clause 6 Calcium cyclamate shall have the following standards and quality

Chemical name: Calcium cyclohexylsulfamate or Calcium cyclohexanesulfamate [CAS: 139-06-0, INS No. 952(ii)]

Chemical Formula: \( \text{C}_{12}\text{H}_{24}\text{CaN}_{2}\text{O}_{6}\text{S}_{2} \cdot 2\text{H}_{2}\text{O} \); Formula weight 432.57

Description: White colourless crystals or crystalline powder.

Approximately 30 times sweeter than sucrose

Identification:
- not less than 98% and not more than 101% on dry basis
- Soluble in water, practically insoluble in ethanol
- Calcium passes test
- Precipitate formation: To 10 ml of a 1 in 100 solution of the sample add 1 ml of hydrochloric acid, mix, add 1 ml of barium chloride. The solution remains clear, but upon the addition of 1 ml sodium nitrite, a white precipitate is formed
  - Loss on drying not less than 6.0% and not more than 9.0% (at 140°C, 2 hr)
  - Purity Cyclohexylaminenot more than 10 mg/kg and

Dicyclohexylamine not more than 1 mg/kg
- Impurity: Lead not more than 1 mg/kg
- Packing and storage: keep in hermetically sealed container.

Clause 7 Use of Cyclamate as sweetener shall be followed requirements of food type and permitted limits in the annex of this Notification.

Clause 8 This Notification is come into force on the day following date published in the government gazette.

Notified on 8th September B.E. 2556 (2013)

(Signed) PraditSinthawanarong

(Mr.PraditSinthawanarong)

Minister of Public Health

(Published in the Government Gazette Vol. 130, Special Part 91Ngor, dated 31st July2013.)

Note: This English version of the notification is translated to meet the need of the non-Thai speaking people. In case of any discrepancy between the Thai original and the English translation, the former will take priority.