

(Unofficial)
Notification of Ministry of Public Health
(No. 359) B.E 2556 (2013)
Re: Cyclamates

It deems appropriate to use Cyclamicacids 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 1 Notification of Ministry of Public Health No. 113 (B.E. 2531)(1988) Re: Sodium cyclamate and Foods containing Sodium cyclamate dated 7th March B.E. 2531(1988) shall be repealed.

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 4 Manufacturing or import of Cyclamate for sale shall follow Notification of Ministry of Public Health (No. 281) B.E 2547(2004) Re: Food Additives dated 18 August B.E 2547 except for Clause 4 and Clause 6 shall follow this Notification.

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 Cyclohexylamine not more than 10 mg/kg and

Dicyclohexylamine not more than 1mg/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: Calciumcyclohexylsulfamate or Calciumcyclohexanesulfamate [CAS: 139-06-0, INS No. 952(ii)]

Chemical Formula: $C_{12}H_{24}CaN_2O_6S_2 \cdot 2H_2O$; 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, 2hr)
 - Purity Cyclohexylamine not more than 10 mg/kg and
- Dicyclohexylamine not more than 1mg/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 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

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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.