

Raw Material Quality and Safety Information

<Raw Material Trade Name, Basic Information, Brief introduction of Raw Material>

Trade Name:	SODIUM MYRISTOYL GLUTAMATE			
Ingredient List (including all agents or mixed ingredients):	Item No.	组分中文名称	INCI Name	Target Percentage %
	1	肉豆蔻酰谷氨酸钠	SODIUM MYRISTOYL GLUTAMATE	100
Recom. Usage Level in Cosmetics:	Leave-on: ≤ 2.56% (calculated by Actives) Rinse-off: ≤ 35.2 % (calculated by Actives)			
Usage Restrictions:	Incompatibles: strong acids, strong alklines or oxides. Don'ts: do not set the pH of whole formulation too low or too high. Warning: Avoid eye contact. If in eyes, wash with plenty of water at least 15min. If uncomfortable continues, go to see physician.			
Appearance &Odor:	White or off-white powder and particles without mechanical impurities,no special odor.			
Physical&Chemical Facts:	Appearance: White or off-white powder; Odor: no special odor; pH: 5.0~6.5 (40°C,5% aq. solution); Water solubility: Insoluble in water (25°C), readily soluble in water (≥40°C); Flammability: Non-flammable.			
Process Flow Brief Introduction:	Myristic chloride + sodium glutamate → Acylation → neutralization → refining → neutralization → solid-liquid separation → fluidized bed drying → Packaging → finished product storage → delivery and transportation Process category: chemical synthesis			

<Quality Control Requirement>

NO.	Item	Molecular Formula or Structure	CAS Number	Quantitative range %
1	SODIUM MYRISTOYL GLUTAMATE	 R = C _n H _{2n+1} , n=13	38517-37-2	≥95.0%
2	Water	H ₂ O	7732-18-5	≤5.0%
3	Sodium chloride	NaCl	7647-14-5	≤1.0%

1. Determination Specification

Item	Specification
Appearance	White or off-white powder
Odor	no special odor
Active Substance Content%	≥95.0%
Acid Value(mgKOH/g)	120~150 mgKOH/g
pH(40°C, 5% aq. solution)	5.0~6.5
Water Content/%	≤5.0%
Sodium Chloride Content/%	≤1.0%

2. Determination Method

Item	Specification	Determination Method
Appearance	White or off-white powder	Visual
Odor	no special odor	Smell
Active Substance Content%	≥ 95.0%	Chemical subtraction
Acid Value(mgKOH/g)	120~150 mgKOH/g	Titration method
Water Content/%	≤5.0%	Drying weight loss method
Sodium Chloride Content/%	≤1.0	Titration method
pH(40°C, 5% aq. solution)	5.0~6.5	Potentiometric method

Application in other industries: can be used in industrial cleaning.

Requirement for Substances of Very High Concern or CMR (Carcinogenic, Mutagenic and Reprotoxic)

NO.	SVHC	w/w% (%), mg/kg (ppm), micro-g/kg (ppb) Max.
1	Heavy Metals, Pb	≤10 mg/kg
2	As	≤2 mg/kg
4	Hg	≤5 mg/kg

Pesticides Residue: Not applicable.

Control Information on Microbiological contamination: Not applicable.

Control Information on host pathogenicity and toxic components: Not applicable.