PRODUCT INFO
& DATASHEET

SICOGIBB

Gibberellic Acid 92% technical grade
Gibberellic Acid (GA3) 10% tablets

1. PRODUCT DESCRIPTION

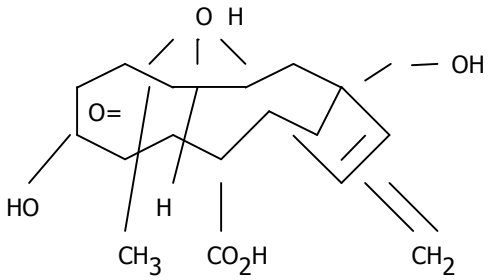
* SICOGIBB, Gibberellic Acid (GA) is a plant growth regulator of high efficiency which is used to promote the growth of plant roots, stems and leaves, to break dormancy of plant seeds, to accelerate earlier flowering and fruit maturing.
Particularly, it has great effect in increasing output of paddy rice, cotton, medicinal chrysanthemum, vegetables, oranges, grapes and melons.

* SICOGIBB Gibberellic Acid tablets can dissolve freely in water, so they are very convenient to use.

- Active ingredient:

Chemical name:	2,4a,7-trihydroxy-l-methyl-8-methylenegibb-3ene-l,10-carboxylic acid, 1-4a-lactone.
Molecular formula:	$C_{19}H_{22}O_6$
Molecular weight:	346.4
CAS No.:	77-06-5

Structure formula:



- Properties:

Composition	92% w/w techn. grade	% w/w	10% w/w TAB	% w/w
	Active ingredient Inert ingredient	92 8	Active ingredient Inert ingrediet	10 90
Appearance	white crystalline solid		white to grey tablets	
Odour	odourless		characteristic	
Melting point	223 - 225 dgr. C.			
Vapour-pressure	3.3 mm Hg at 20 dgr. C.			
Stability:	Dry Gibberellic Acid is stable at room temperature, but slowly undergoes hydrolysis in aqueous or aqueous-alcoholic solutions, DT_{50} (20dgr. C.) 14 d (pH 7). In alkalis, undergoes a rearrangement to less biologically-active compounds. Decomposed by heat.			
Solubility:	In water 5 g/l (room temperature). Soluble in methanol ethanol, acetone, and aqueous alkalis: slightly soluble in diethyl ether ad ethyl acetate. Insoluble in chloroform. Potassium, sodium and ammonium salts: readily soluble in water (potassium salt 50 g/l)			

SAP INTERNATIONAL CORPORATION bvba Krekelenberg 69, B-2980 Zoersel, Belgium
Tel. +32-3-309.06.51 Fax. +32-3-309.19.31 Email : info@sico.be Website : www.sico.be

SICO FERTILISERS EVERY TIME THE right SOLUTION

PRODUCT INFO & DATASHEET

2. APPLICATION METHODS & RATES

General uses:
* Plant growth regulator, used in a variety of applications, e.g. to improve fruit setting of clementines and pears; to loosen and elongate clusters and increase berry size in grapes; to control fruit maturity by delaying development of the yellow colours in lemons; to reduce rind stain and retard rind ageing in navel oranges; to counteract the effects of cherry yellow virus disease in sour cherrries; to produce uniform seeding growth in rice; to advance flowering and increase the yield of strawberries and also a variety of application on ornamentals, etc.
Gibberellic Acid can be used without hazard under any conditions and residues on crops are harmless, being in most cases less than the natural level of Gibberellin in some plants.

* Dissolve the tablet in water, dilute to the required & proper concentration (see sheet below).
Solutions should be freshly prepared for use and should be used within 36 hours.
Heavy rain within 8 hours of application may result in some activity loss: in such cases a further half strength treatment can be applied. The second treatment is not recommended for pears. May be applied by soil spray or air spray.

* **Concentration Sheet**

Concentration (ppm) / Water (L/Tablet)	10	20	30	100	125	200	250
Volume of water	62.5	12.5	7.8	6.3	5	3	2.5

Examples, if you want to get concentration 10 ppm, one 10% GA3 tablet, you should add

62.5 l of water. And 20 ppm, each tablet should be dissolved in 12.5 l of water etc.

* **Scope and method of application**

Crop	Effect	Rates (a.i.g/ha)	Method of application
Rice	improves growth	80-250 mg/kg	spray 3 times
Cotton	induces output	10-20 mg/kg	spray
Orange	generates bigger plants	40-160 mg/kg	spray on flower
Potato	generates bigger plants	0.5-1 mg/kg	dip the caudex 10-30 minutes
Flower	induces flowering	700 mg/kg	spray
Grape	generates bigger plants	50-200 mg/kg	spray

PHI (Post Harvest Interval): 7 days

3.TOXICITY

Toxicity to: Acute oral LD_{50} for rats ad mice > 1500 mg/kg
Mammals: Non-irritant to skin and eyes
Toxicity to fish: Cyprinus carpio TLm (48 h) > 100 ppm: flea 850 ppm
Toxicity class: III

4. STORAGE

SICOGIBB TABLETS should be stored in a cool place and temperatures above 32 dgr. C. should be avoided.

SAP INTERNATIONAL CORPORATION bvba Krekelenberg 69, B-2980 Zoersel, Belgium
Tel. +32-3-309.06.51 Fax. +32-3-309.19.31 Email : info@sico.be Website : www.sico.be