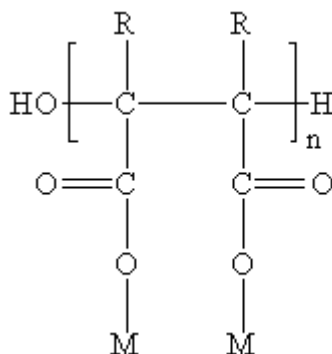


Polyepoxysuccinic Acid

(PESA)

Molecular Formula: $\text{HO}(\text{C}_4\text{H}_2\text{O}_5\text{M}_2)_n\text{H}$ **Molecular weight:** 400-5000

Structural Formula:



Notes: $n=2-10$

$\text{M} = \text{H}^+, \text{Na}^+, \text{K}^+, \text{NH}_4^+$

$\text{R} = \text{H}, \text{C}_{1-4} \text{ alkyl}$

Properties:

Non-phosphor, non-nitrogen, green environment protection are the obvious properties of this product, it is a multivariate antiscalant and corrosive inhibitor, it has good antiscalant and dispersion performance to calcium carbonate, calcium sulfate, calcium fluoride and silica scale, with effects better than that of ordinary organophosphines. The other obvious property of this product is that when built with organophosphates, the synergism effects are excellent, the built product has good quality stability. This product has some effect of corrosive inhibitor, is a multivariate antiscalant.

This product has good biodegradation properties, it can be widely used in circulating cool water system in situation of high alkaline, high hardness and high pH value. It can be operated under high concentration index. It has good compatibility with chlorine and other water treatment agents.

Specification: (PESA)

Items	Index
Appearance	Colorless or amble transparent liquid
Solid component % \geq	40.0
Density (20°C) g/cm ³ \geq	1.30
pH value (1% water solution)	9.0-12.0

Usage Methods:

1. It can be used in fields of oilfield refill water, crude oil dehydration and boiler;
2. It can be used in circulating cool water system of steel, petrochemical, power plant, medicine.
3. It can be used in situation of high alkaline, high hardness, high pH value and high concentration index, for example, in the boiler water, circulating cool water treatment, desalination plant and membrane separation
4. It can be used in detergent fields.

Package and Storage: 25kg in plastic barrel, or determined by clients. Storage for ten month in room shady and dry place.

Safety Protection: Alkaline, Avoid contact with eye and skin, once contacted, flush with water.
