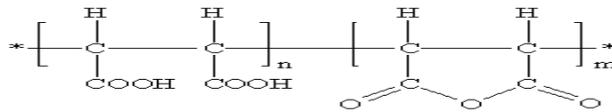# Hydrolyzed Polymaleic Anhydride

HPMA

[CAS No.] **26099-09-2**

Structural Formula:

Properties:

This product is an organic aliphatic acid polymeride, with average molecular weight in range of 400-800. No toxicity, Soluble in water, high chemical and thermal stability. Since its dissociation temperature is above 330℃, the product exhibits obvious threshold effects under high temperature (350℃) and high pH（8.3）level, suitable to alkali water quality or built with other water treatment agents. It shows good antiscale property against carbonate and phosphate scales under temperature 300℃ with effective time as long as 100 hours. This product can also be used together with crude oil dewatering demulsifiers. Due to its excellent antiscale and high temperature resistance properties, this product is widely used in desalination plant of flash vaporization equipment low pressure boiler, steam locomotive, crude oil evaporation, water and petroleum pipeline, and industrial circulating cool water systems. In addition, this product shows excellent corrosion inhibition effect. When used together with zinc salt, its effect will be even better.

This product can also used as additives for cement.

Specification: Meet criterion of 10535-1997

items		index
Appearance		Clear, amber liquid
Solid content　%	≥	48.0
Bromine value mg/g	≤	80.0
Average molecular weight	≥	450
pH value (1% water solution)	≤	2.0-3.0
Density　(20℃) g/cm^3	≥	1.18

Usage Methods:

This product is usually used together with organic phosphonate at dosage of 1-15ppm for circulating cool water system, oilfield fill water, crude oil dewatering and low-pressure boilers. It has good antiscale and scale stripping properties with antiscale rate as high as 98%. When used together with zinc salts, it can effectively inhibit carbon steel corrosion.

Package and Storage:

25kg in plastic barrel. Storage for one year in room shady and dry place.

Safety Protection:

Acidity, Avoid contact with eye and skin, once contacted, flush with water

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