

SODIUM ANTIMONATE



Introduction

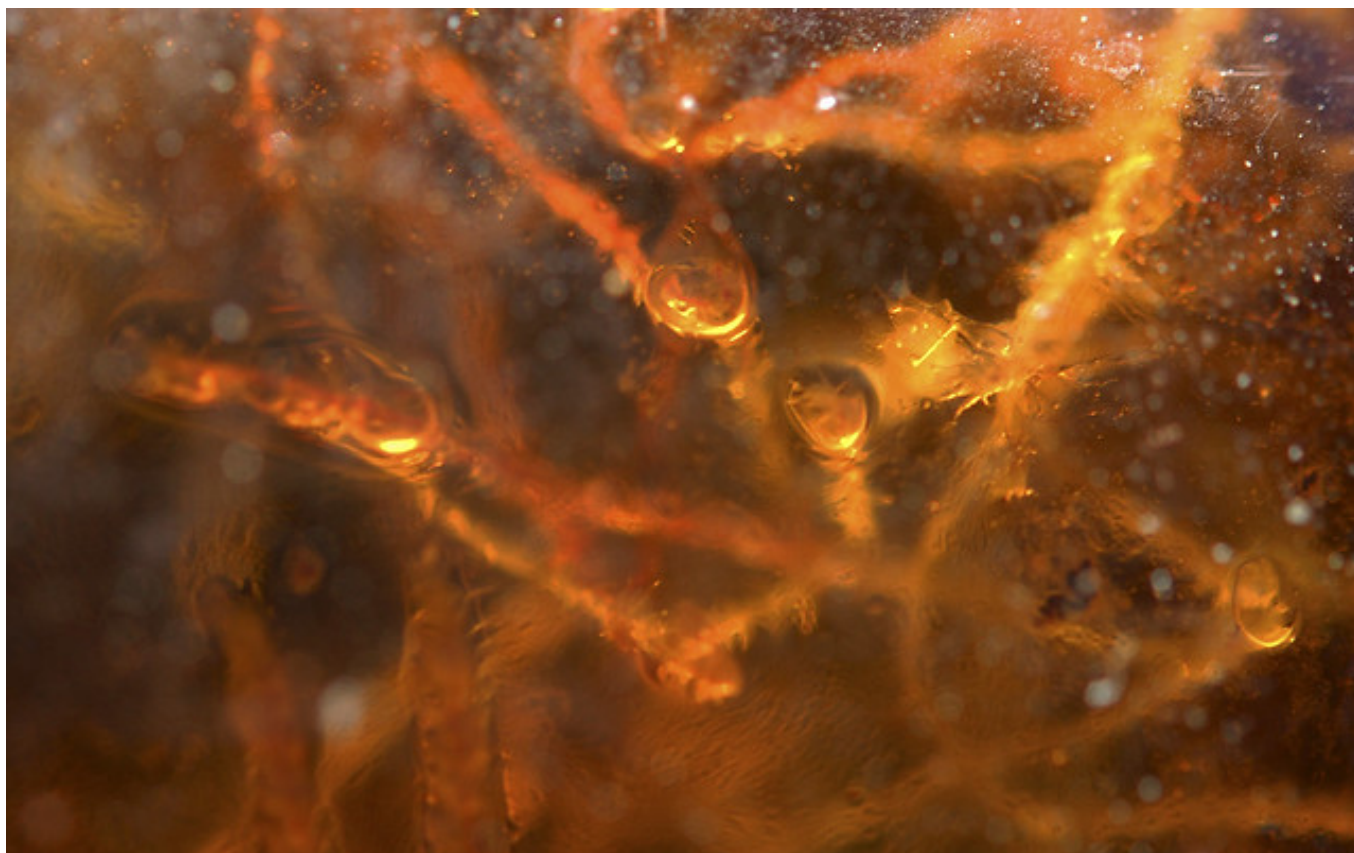
Sodium Antimonate is used in the glass industry as a fining agent or degasser, especially in colour television bulbs and optical glass. Sodium Antimonate is a fire retardant with very low tinting characteristics. As such it is used in plastics, paints, fibre glass resins and various textile goods.

Applications

- 1 It is mainly used as glass clarifier and deformer in color and mono chrome picture tubes.
- 2 It is used as covering agents and whitening agents in enameled and ceramic products.
- 3 It is used as flame retardant of engineering thermoplastics and rubber.
- 4 It is used to remove the hidden air in molten glass as well as activator in polyester fiber.

Benefits

- 1 It is a better alternative to antimony trioxide.
- 2 It is well resistant to long periods of strong ultraviolet ray exposure.
- 3 Good transparency.



Specifications

Test	Specification	Test Method
Appearance	Form: Fine Powder Colour: White	Visual
Fe ₂ O ₃ content	< 0.03 %	Atomic absorption spectroscopy
Particle Size	D50: 3-5 micron	Malvern laser diffraction method
Sb Content	>60.50 %	Atomic absorption spectroscopy
Na ₂ O Content	15.0 +- 0.5%	Atomic absorption spectroscopy
Sb ₂ O ₅ Content	> 80.35 %	Atomic absorption spectroscopy

Product FDA Status

SA is not recommended for food contact polymers.

Some Known Formulations

PETRA 130FR

Ingredients	% Composition
Sodium antimonate	>= 3.0 - < 5.0%
Bisphenol-a diglycidyl ether	>= 0.3 - < 1.0%
Polyethylene terephthalate	>= 30.0 - <= 50.0%
Brominated polystyrene	>= 10.0 - <= 20.0%
Ethylene/methacrylic acid ionomer, sodium ion	>= 1.0 - <= 5.0%
Poly(ethylene glycol) bis(2-ethylhexanoate)	>= 1.0 - <= 5.0%
Poly(ethylene-co-acrylic acid, sodium salt)	>= 0.5 - <= 1.5%



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