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Active Oxidants Division
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Sodium Persulfate

CAS No. 7775-27-1

Formula	Na ₂ S ₂ O ₈	MW 238.1 g/mole
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Synonyms	Sodium Peroxydisulfate, Disodium Peroxydisulfate
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Typical Analysis by Weight Percent

Purity, %	99.4
Active Oxygen, %	6.68
Moisture, %	0.01
Ammonium Persulfate, %	0.01
Sodium Sulfate, %	0.6
pH (1% solution)	6.0
Insolubles, ppm	30

Typical Metal Analysis by ppm

Iron, ppm	2
Copper, ppm	<0.2
Chloride, ppm	<10
Heavy Metals, as Pb, ppm	<1
Manganese, ppm	<0.5
Chromium, ppm	<0.5
Sodium, ppm	-
Potassium, ppm	-

Chemical and Physical Properties

Odor	None
Appearance	White crystals
Melting point	Decomposes
Specific gravity	2.6 g/mL @ 20°C (68°F)
Solubility in water @ 25°C (77°F)	73%
Loose bulk density	1.12 g/cc
Crystal density	2.59 g/cc

Shipment Information

DOT Classification - 5.1 (Oxidizer), yellow oxidizer label
55 lb (24.9 kg) - polyethylene bag; 225 lb (101.9 kg) - Fiber drum, polyethylene liner;
1000-2200 lb - IBC - polypropylene sack, polyethylene liner

Uses

Polymerization initiator, etchant and cleaner for printed circuit boards, and hair bleach formulations

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