

## Technical Data Sheet of

### *Sodium Persulfate*

<b>COMMERCIAL NAME:</b>	<i>Sodium Persulfate</i>	<b>FORMULA:</b>	$Na_2S_2O_8$
<b>SYNONYM:</b>	--	<b>CAS No.:</b>	7775-27-1,15593-29-0

<b>SPECIFICATIONS</b>	
<b>Appearance:</b> <i>White crystalline powder</i>	
<b>Assay (as <math>Na_2S_2O_8</math>):</b>	99.0%min
<b>Active Oxygen:</b>	6.65%min
<b>Heavy Metals (as Pb):</b>	0.001%max
<b>Iron (as Fe):</b>	0.001%max
<b>Manganese (as Mn)</b>	0.0001%max
<b>Chloride and Chlorate (as Cl)</b>	0.005%max
<b>Ammonium Salt (as <math>NH_4</math>):</b>	0.05%max
<b>Moisture:</b>	0.05%max

<b>PACKING:</b>
25kgs/bag  <i>(Up to 1000bags/25MT in 1X20'FCL)</i>

#### **Handling and Storage:**

SPS is not combustible but assists combustion of combustible materials due to release of oxygen, provided it is stored under appropriate condition. It must be stored dry in closed containers and protected from direct sunlight, heat and humidity. Impurities such as dirt, rust or traces of metal and reductants many cause catalytic decomposition. The product as supplied or in solution needs to be handled with appropriate care. The eye, skin and clothes must be protected when working with SPS. SPS as damp powder or aqueous solution has a bleaching and slightly corroding effect.

#### **Applications:**

SPS is a suitable initiator for the emulsion or solution polymerization of acrylic monomers, vinyl acetate, vinyl chloride etc., and for the emulsion copolymerization of styrene, acrylonitrile, butadiene etc.. SPS is also a kind of oxidizing agent:

- (1) Used in cleaning and pickling of metal surfaces.
- (2) Used in accelerated curing of low formaldehyde adhesives.
- (3) Used in modification of starch, production of binders and coating materials.
- (4) Desizing agent and bleach activator.
- (5) An essential component of bleaching formulations for cosmetics.