

Material Safety Data Sheet  
Product Name: Sodium Metasilicate, Anhydrous  
Item# DP50/POSDEV

Chemical Name:	Sodium Silicate
Synonyms:	Silicate acid, disodium salt
CAS Number:	68340952-0
Molecular Formula:	Na <sub>2</sub> SiO <sub>3</sub>
CDS No.:	10303
Issue Date:	8/87
Issue Number:	2(f)

Use: In formulation of detergents & cleaners

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GENERAL HAZARD STATEMENT:

Harmful alkaline solid. Irritant to skin, eyes and mucous membrane. Avoid inhaling dust. Not combustible. Use good occupational work practice.

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PHYSICAL PROPERTIES:

White granules or powder. Soluble in water, precipitated by acids and by alkaline earth and heavy metal ions. Insoluble in alcohol.

Melting point: 1089 deg. C

Specific Gravity: 2.4

Density: 2.614

pH(1% aqueous solution)=12.8

HEALTH CONSIDERATIONS:

Considered to be harmful by all exposure routes. Contact with skin will result in irritation, especially in perspiring areas and may cause skin burns. Repeated or prolonged skin contact may lead to dermatitic effects. A severe eye irritant. Inhalation of dust will result in respiratory irritation. In severe cases, congestion of the lungs can occur causing shortness of breath followed by unconsciousness. Pulmonary edema may result. Ingestion can result in nausea, vomiting and stomach pain.

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THRESHOLD LIMIT VALUE (TLV)

None assigned by National Health & Medical Research Council

PERSONAL PROTECTION RECOMMENDATIONS:

Avoid skin and eye contact. Wear impervious gloves, safety glasses and overalls. Use with adequate ventilation. Avoid inhalation of dusts. If dusts exist, wear approved dust mask. Always wash hands before smoking, eating, drinking or using the toilet.