

**SODIUM SILICATE (solution 25-50%)**

1137

October 2001

CAS No: 1344-09-8  
RTECS No: VV9365000Sodium silicate  
Silicic acid, sodium salt  
Waterglass  
Na<sub>2</sub>Si<sub>3</sub>O<sub>7</sub>

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible.		In case of fire in the surroundings: powder, water spray, foam, carbon dioxide.
<b>EXPLOSION</b>			

EXPOSURE		PREVENT GENERATION OF MISTS!	
<b>Inhalation</b>	Cough. Sore throat.	Ventilation. Local exhaust.	Fresh air, rest.
<b>Skin</b>	Redness. Pain.	Protective gloves.	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
<b>Eyes</b>	Redness. Pain.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Diarrhoea. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Refer for medical attention.

**SPILLAGE DISPOSAL**

Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. (Extra personal protection: self-contained breathing apparatus.)

**PACKAGING & LABELLING****EMERGENCY RESPONSE****STORAGE**

Separated from strong acids, aluminium, zinc.

## IMPORTANT DATA

**Physical State; Appearance**

COLOURLESS 25-50% SODIUM SILICATE SOLUTION IN WATER

**Chemical dangers**

The solution in water is a medium strong base. Reacts with aluminium and zinc forming flammable/explosive gas (hydrogen - see ICSC0001).

**Occupational exposure limits**

TLV not established.  
MAK not established.

**Routes of exposure**

The substance can be absorbed into the body by inhalation and by ingestion.

**Inhalation risk**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

**Effects of short-term exposure**

The aerosol is irritating to the eyes, the skin and the respiratory tract.

## PHYSICAL PROPERTIES

Relative density (water = 1): 1.4

Solubility in water, g/100 ml at 20°C: miscible

## ENVIRONMENTAL DATA

## NOTES

## ADDITIONAL INFORMATION

**LEGAL NOTICE**

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