



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

RXSOL-67-8107-280

Sodium Silicate Water Glass

Description :

Sodium silicate, also called water glass or Soluble Glass, is any one of several compounds containing sodium oxide, Na_2O , and silica, Si_2O , or a mixture of sodium silicates varying ratios of SiO_2 to Na_2O , solids contents, and viscosity. Traditionally, sodium silicates are classified according to the acid from which they are derived as Orthosilicate Na_4SiO_4 ; Metasilicate Na_2SiO_3 ; Disilicate $\text{Na}_2\text{Si}_2\text{O}_5$; Tetrasilicate $\text{Na}_2\text{Si}_4\text{O}_9$. They are also classified by an X-ray diffraction method according to their crystalline structure. All these compounds are colorless, transparent, glasslike substance available commercially as a powder or as a transparent, viscous solution in water. They can be dissolved in water to form a syrupy liquid. Some forms are slightly soluble, and some are almost insoluble; they are best dissolved by heating with water under pressure. The solutions are strongly alkaline. They are produced chiefly by fusing sand and sodium carbonate in various proportions. The use of sodium silicates is as a raw material for making silica gel. Also used in detergent; as a cement for glass, pottery, and stoneware; for fireproofing paper, wood, cement, and other substances; for fixing pigments in paintings and cloth printing.

Application :

Silica gel production

Builder or anti-soil-redeposition agent for detergent

Peroxide stabilizer in bleaching for textile and pulp

Solubilizer in ink, flux binder for welding rods

Deflocculant for ceramic

Buffer

Fireproofing paper catalysts

Water treatment

Concrete hardner and acid-proof

Petroleum processing by emulsion breaking and corrosion prevention

Timber treatment.

Oil Field use

PRODUCT IDENTIFICATION

CAS NO. 1344-09-8

EINECS NO... .215-687-4

FORMULA $2\text{Na}_2\text{O} \cdot \text{SiO}_2$

MOL WT.184.04

H.S.CODE..... 2839.19

This Safety Data Sheet is provided by RXSOL. For the most current version of this document, please visit eastindiachemicals.com. This document is prepared in accordance with GHS / OSHA HazCom standards. The information contained herein is believed to be accurate but

does not purport to be all-inclusive. It is the responsibility of the user to determine the suitability of this information for their application.