

Sodium Metasilicate Solution

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Sodium Metasilicate Solution

Sodium metasilicate is the chemical substance with formula Na 2SiO 3, which is the main component of commercial sodium silicate solutions. It is an ionic compound consisting of sodium cations Na+ and the polymeric metasilicate anions [-SiO2– 3-]n. It is a colorless crystalline hygroscopic and deliquescent solid, soluble in water, but not in alcohols.

Sodium metasilicate - Wikipedia

What Is Sodium Metasilicate? Identification. This produces a clear, white or grayish-white crystal solution. Sodium is a base, and therefore has a... Uses. For this reason, it is used in a variety of settings. The compound is found as an ingredient in fireproofing... Green-Friendly. It is available ...

What Is Sodium Metasilicate? | Healthfully

Sodium metabisulfite (CAS 7681-57-4, Formula Na2S2O5) is a white to slightly yellowish crystalline powder with sulfur dioxide odor, readily soluble in water. Bisulfite is a reductive bleaching...

US8324146B2 - Sodium metasilicate based cleaning solutions ...

Sodium metasilicate (SMS) has been used in the preparation of polypyrrole/sodium metasilicate (PPy/Na 2 SiO 3) and polythiophene/sodium metasilicate (PT/Na 2 SiO 3) composites, novel high dielectric constant materials for use in power electronic systems. SMS can also be used:

Sodium metasilicate - 1 Kg, 25 g in poly bottle | Disodium ...

sodium metasilicate,sodium silicate,waterglass,water glass,sodium siliconate,sodium polysilicate,sodium sesquisilicate,sodium silicate glass,sodium silicate solution,sodium water glass PubChem CID 23266

Sodium Silicate Solution, 37% | Fisher Scientific

A. Sodium metasilicate is not a cleaning agent by itself. It is a VERY strong base. The pH of a 1% aqueous solution is about 13. In moist air it is corrosive to metals like zinc, aluminium, tin and lead, forming hydrogen gas.

Sodium metasilicate - is it a cleaning agent?

Sodium metasilicate is highly alkaline. Dust from the powder can irritate the nose, eyes and lungs. When mixed with water to form a cleaning solution, prolonged exposure to this compound can cause skin irritation. Wear protective gloves, eye protection and long sleeved shirts and pants while using this product.

Sodium metasilicate, Housekeeping & Cleaning Guides ...

Solutions of sodium metasilicate, when heated or acidified, are hydrolyzed to free sodium ions and silicic acid.

Sodium silicate | Na2SiO3 - PubChem

A well-known member of this series is sodium metasilicate, Na2SiO3. Also known as waterglass or liquid glass, these materials are available in aqueous solution and in solid form. The pure...

How can I dissolve sodium silicate in water?

Sodium silicate is a generic name for chemical compounds with the formula Na 2xSi yO 2y+x or x- y, such as sodium metasilicate Na 2SiO 3, sodium orthosilicate Na 4SiO 4, and sodium pyrosilicate Na 6Si 2O 7. The anions are often polymeric. These compounds are generally colorless transparent solids or white powders, and soluble in water in various amounts. Sodium silicate is also the technical and common name for a mixture of such compounds, chiefly the metasilicate, also called waterglass, water

Sodium silicate - Wikipedia

The Metso® range of Sodium Metasilicate Pentahydrate Sodium Metasilicate has been used for a long time in alkaline cleaning agents for the household and industrial sectors. Sodium Metasilicate provides both silica and alkalinity in a molar ratio of 1:1 between silica and sodium oxide, which makes it especially suitable for hard surface cleaning.

A Soluble Silicate for Institutional and Industrial Cleaning

Sodium silicate solution is used as a paper cement in the production of cardboard. Liquid glass is used as a drilling fluid for the stabilization of borehole walls. In the automotive industry, this chemical compound is used as a crack sealer and exhaust system joint for repairing resonators, tailpipes, mufflers and other components.

Properties, Production and Uses of Sodium Silicate ...

Sodium metasilicate, a very corrosive compound, is precipitated by acids and alkaline earth and heavy metal ions. When heated or acidified, solutions of the compound are hydrolyzed to free sodium ions and silicic acid. Sodium metasilicate is produced by the fusion of sodium carbonate with silicon dioxide or silica sand at about 1400 °C.

Sodium Metasilicate, Anhydrous [6834-92-0], Sodium ...

Sodium metasilicate is an inorganic compound having the chemical formula Na 2 SiO 3. It is the main ingredient in commercially available sodium silicate solutions. This is an ionic compound containing sodium cations and polymeric metasilicate anions. This ionic compound is a colorless, crystalline and hygroscopic solid that is highly deliquescent.

Difference Between Sodium Silicate and Sodium Metasilicate ...

Sodium metasilicate nonahydrate combined with cobalt chloride (CoCl 2. 6H 2 O) may be used to prepare Co 3 O 4 nanoparticles. The product may be used to impart flame retardant and antimicrobial properties in jute textiles.

Sodium metasilicate >=98% | 13517-24-3 | Sigma-Aldrich

Sodium Metasilicates Sodium metasilicates, METSO BEADS® 2048 and METSO PENTABEAD®20, offer the convenience of sodium silicate and sodium hydroxide (caustic soda) in an easy to handle, free-flowing bead. Available in both anhydrous and pentahydrate, sodium metasilicates are the workhorse ingredients in detergents and cleaning products.

Sodium Metasilicates - PQ Corp

Sodium silicate is the common name for a compound sodium metasilicate, Na 2 SiO 3, also known as waterglass or liquid glass. It is available in aqueous solution and in solid form and is used in cements, passive fire protection, refractories, textile and lumber processing, and automobiles.

Sodium metasilicate - Cargo Handbook - the world's largest ...

Sodium metasilicate pentahydrateRevision Date 18-Jan-2018 inhaled the substance: give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. IngestionImmediate medical attention is required.