

SODIUM ORTHOSILICATE

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Company Identification: ANKIT SILICATE

Survey No-259, P-3 B/H Nilkanth Ceramic Jetpar Road, At- Bela, Morbi - 363642,

Gujarat (India).

Contact: +91 98252 18329 Email: export@ankitsilicate.com

Product Synonyms: TETRASODIUM ORTHOSILICATE; SILICICACID, TETRA

SODIUMSALT; TETRASODIUM SILICATE; SILICIC ACID (H4SIO4),

SODIUM SALT (1:4)

Substance name SODIUMO RTHO SILICATE,

Formula Na4O4Si

Chemical family Inorganic Family

SECTION 2. HAZARDS IDENTIFICATION:

Label Elements



Signal Word Danger

Hazard Statements

H 302-Harm full if swallowed

H 314-Causessevereskinburnsandeyedamage H335 -

May cause respiratory irritation H 318-Causesseriouseyedamage

Precautionary Statements

Prevention

P 264 - Wash hands and face thoroughly after handling P

270-Donoteat, drink or smoke when using this product P260

- Do not breathe dust/fume/gas/mist/vapors/spray

P280-Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271-Useonlyoutdoorsorinawell-ventilatedarea

Response

P301+P312-IFSWALLOWED:Call A poison CENTER or doctor if you feel unwell P330 -

Rinse mouth



P301+P330+P331-IFSWALLOWED:rinse mouth.Do NOT induce vomiting

P303+P361+P353-IFONSKIN (orhair):Takeoffimmediatelyallcontaminatedclothing.Rinseskinwithwaterorshower P363 - Wash contaminated clothing before reuse

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing P310 -

Immediately call a POISON CENTER or doctor

P321-Specifictreatment (see supplemental first aid instructions on this label)

P305+P351+P338-IFINEYES:Rinse cautiously with water for several minutes. Remove contact lenses ,if present and easy to do. Continue rinsing

P312-Call a POISON CENTER or doctor if you feel unwell

Storage

P405-Storelockedup

P403+P233-Store in a well-ventilated place. Keep container tightly closed

Disposal

P501-Dispose of contents/container to an approved waste disposal plant

Other Hazards

NFPA

Health Flammability Instability Physical hazards
4 0 -

SECTION 3: COMPOSITION/INFORMATIONONINGREDIENTS

3.1.Substances

Component Common N		CAS No	Index No	Weight%
Silicic acid(H4SiO4),tetra sodium salt No information available		13472-30-5	KE-33700	99-100

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance .Immediate medical attention s

Required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for atleast15minutes.

Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water while removing gall

contaminated clothes and shoes. Call a physician immediately.

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison

 $control center immediately. Do not use mouth-to-mouth method if victiming ested or inhaled \ the$

substance; give artificial respiration with the aid of a pocket mask equipped with a

one-way valve or other proper respiratory medical device.



SECTION 5:FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing

Media

CO₂, dry chemical, dry sand, alcohol- resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Sodium oxides ,Silicon dioxide.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH(approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEAS EMEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Environmental precautions

Should not be released in to the environment. Do not allow material to contaminate ground water system.

Methodsand Material for Containment and Cleaning Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.



SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing.. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

Conditions for Safe Storage, Including any Incompatibilities

Corrosives area. Keep container slightly closed in a dry ,cool and well-ventilated place.

SECTION 8:EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	CAS No			
Silicic acid (H4SiO4), tetra	13472-30-5			
sodium salt				

Biological Exposure Indices

Component	CAS No			
Silicic acid (H4SiO4), tetra	13472-30-5			
sodium salt				

Exposure Controls

Engineering Measures

Ensure that eye wash station sand safety showers are close to the work station location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of processor equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye ProtectionGogglesHand ProtectionProtective glovesSkin and body protectionLong sleeved clothing

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (Physical State, Color, White Solid Crystalline etc.)

Odor Odorless

OdorThreshold No data available pH Not applicable

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeNo information availableFlash PointNo information available

Evaporation Rate Not applicable Solid

Flammability(solid, gas) No information available

Explosion Limits No data available

Vapor PressureNo data availableVapor DensityNot applicable

Specific Gravity/DensityNo data availableBulk DensityNo data availableWaterSolubilitySoluble in water

Solubilityinothersolvents No information available

Partition Coefficient(n-octanol/water)

Component	CAS No	Log Pow		
Silicic acid(H4SiO4),tetra sodium salt	13472-30-5	No data available		

Solid

Auto ignition TemperatureNo data availableDecomposition TemperatureNo data available

Viscosity Not applicable Solid

Molecular Formula Na4SiO4
Molecular Weight 184.04

Explosive Properties

Oxidizing Properties

No information available
No information available



SECTION 10: STABILITY AND REACTIVITY

Reactivity None known, based on information available

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous ReactionsNo information available.
None under normal processing.

Incompatible Materials Strong oxidizing agents. Bases.

Hazardous Decomposition Products Sodium oxides. Silicon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

(a) Acute toxicity :Not classified

		Sodium Ortho silicate(6834-92-0)					
	LD50oralrat	1280mg/kg					
ATEUS(oral)		1280.000mg/kg body weight					

Skin corrosion/irritation :Causes severe skin burns and eye damage.

Serious eye damage/irritation :Causes serious eye damage.

Respiratory or skin sensitization :Not classified Germ cell mutagenicity :Not classified Carcinogenicity :Not classified Reproductive toxicity :Not classified

Specific target organ toxicity(single exposure): May cause respiratory irritation.

Specific target organ :Not classified

toxicity(repeated exposure)

Aspiration hazard :Not classified

Potential Adverse human health Sodium orthosi

effects and symptoms

:Sodium orthosilicate is a caustic material that can cause severe irritation and caustic

burns.

Symptoms/injuries after inhalation May cause respiratory irritation



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

Component CAS No		Fresh water Fish	Water Flea	Fresh water Algae	Microtox	
Silicic acid(H4SiO4),tetra sodium	icic acid(H4SiO4),tetra sodium 13472-30-5		No data available	No data available	No data available	
salt						

Persistence and degradability

Persistence Soluble in water, Persistence is unlikely, based on information available.

Bioaccumulative potential Bioaccumulation is unlikely

Mobility in soil

The product is water soluble, and may spread in water systems Will likely be mobile in the

Environment due to its water solubility. Highly mobile in soils.

OzoneDepletionPotential

Component	CAS No	Ozone Depletion Potential		
Silicic acid(H4SiO4),tetra sodium sa	13472-30-5	Not listed		

Other advers eeffects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Sewage disposal recommendations Do not dispose of waste into sewer.

Waste disposal recommendations Landfill. Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility.

SECTION14:TRANSPORTINFORMATION

UN-No UN1759

Proper Shipping NameCorrosive solid,n.o.s.Technical Shipping NameSodium orthosilicate

Hazard Class 8
Packing Group ||

IATA

UN-No UN1759

ProperShippingNameCORROSIVESOLID,N.O.S*TechnicalShippingNameSodium orthosilicate

HazardClass 8
PackingGroup ||



IMDG/IMO

UN-No Proper Shipping Name

Technical Shipping Name

Hazard Class Packing Group

Marine Pollutant

UN1759

CORROSIVESOLID, N.O.S.*

Sodium orthosilicate

8 II

No hazards identified

Special Precautions for User No special precautions required

SECTION15:REGULATORY INFORMATION

Sodium Orthosilicate (13472-30-5)

TSCA: All ingredients of this material are listed on the TSCA inventory.

FDA: The use of sodium Ortho silicate is authorized by FDA as a boiler water additive for the production of steam that will contact food pursuant to 21 CFR and as a GRAS substance pursuant to 21 CFR a for use in washing and lye peeling of fruits, vegetables, and nuts; as a denuding agent for tripe; a hog scald agent in removing hair; and as a corrosion preventative in canned and bottled water

Safety, health and environmental regulations/legislation specific for the substance or mixture

[Component	CAS No	KECL	TSCA	EINECS	IECSC	DSL	NDSL	PICCS	ENCS	ISHL	AICS
	Silicic acid(H4SiO4),	13472-30-5	KE-33700	Χ	236-741-3	Х	Χ	-	Х	Χ	Χ	Χ
	tetra sodium salt											

Legend: X-Listed' -'-Not Listed

SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

