

## 1. Identification

<b>Product Identifier/Product Name</b>	T15 BASE ONE <sup>®</sup>
▪ <b>Alternative Names</b>	Silicic Acid, Sodium Salt (2.6<MR<=3.2)
▪ <b>CAS Number</b>	1344-09-8
▪ <b>EINECS Number</b>	215-687-4

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

- **Identified Use(s)** General purpose industrial chemical for use in a wide range of applications. Binding agent; flame retardant or fire preventing agent; flotation agent; stabilizer, viscosity control agent.
- **Uses Advised Against** None known

### Manufacturer/Supplier

*Team Laboratory Chemical Corp.*  
*PO Box 1467, Detroit Lakes, MN 56502 USA*  
*Phone: 800-522-8326*  
*Email: sales@teamlab.net*

**Emergency Telephone Number:** Infotrac: 1-800-535-5053 or 1-352-326-2510

## 2. Hazard(s) Identification

### Classification of the Substance or Mixture

- **GHS Classification** Skin Irritation 2  
Eye Irritation 2
- **Hazards Summary** Alkaline. Irritating to eyes and skin. Spilled material is slippery.

### Labels Elements

#### ▪ Hazard Pictograms



- **Signal Words** Warning
- **Hazard Statement(s)** H315: Causes skin irritation  
H319: Causes serious eye irritation

▪ **Precautionary Statements**

P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Other Hazards**

Dries to form glass film which can easily cut skin. Can etch glass if not promptly removed.

**3. Composition/Information on Ingredients**

Regulation (EC) No. 1272/2008 (CLP)

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and Hazard statement(s)
Silicic acid, Sodium salt, Proprietary blend	20.45%	1344-09-08	215-687-4	H315: Skin Irritation 2 H319: Eye Irritation 2
Water	79.55%	7732-18-5	231-791-2	

**4. First Aid Measures**

**Description of First Aid Measures**

- **Eye Contact** Irrigate with eyewash solution or clean water, holding the eyelids apart for at least 15 minutes. Obtain immediate medical attention.
- **Skin Contact** Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
- **Inhalation** Remove patient from exposure, keep warm and at rest. Obtain medical attention.
- **Ingestion** Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.

**Most Important Symptoms and Effects, Both Acute and Delayed** Alkaline. Irritating to eyes and skin. The toxicity of silicic acid and sodium salt is dependent of the silica to alkali ratio and on the pH.

**Indication of Any Immediate Medical Attention and Special Treatment Needed** Obtain immediate medical attention.

## 5. Fire Fighting Measures

### Extinguishing Media

- **Suitable Extinguishing Media** Compatible with all standard fire fighting techniques.
- **Unsuitable Extinguishing Media** None known.

### Special Hazards Arising from the Substance or Mixture

Not applicable. Aqueous solution. Non-combustible.

**Advice for Firefighters** None.

## 6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures** Wear suitable protective clothing. Wear eye/face protection.

**Environmental Precautions** Do not allow to enter drains, sewers, or watercourses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**Methods and Materials for Containment and Cleaning Up** Caution – spillages may be slippery. Contain spillages with sand, earth, or any suitable absorbent material. Transfer to a container for disposal or recovery

**Reference to Other Sections** See also Section 8.

**7. Handling and Storage**

**Precautions for Safe Handling**

Avoid contact with eyes, skin, and clothing. Avoid generation of mist. Provide adequate ventilation. Emergency shower and eye wash facilities should be readily available. See also Section 8.

**Conditions for Safe Storage, Including Any Incompatibilities**

Storage temperature 0-95°C. Loading temperature 45-95°C. Do not allow material to freeze. Provide an adequate bund wall. Unsuitable containers: Aluminum. See also Section 10.

**8. Exposure Controls/Personal Protection**

**Control Parameters**

Substance	Occupational Exposure Limits
Silicic acid, Sodium salt, Proprietary blend	No Occupation Exposure Limit assigned. An exposure limit of 2 mg/m <sup>3</sup> (15 min TWA) is recommended by analogy with sodium hydroxide (UK EH40).

**Exposure Controls**

Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink, or smoke at the work place.

**Appropriate Engineering Controls**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Personal Protection**

- **Respiratory Protection**
- **Eye/Face Protection**
- **Skin Protection**

Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Chemical goggles (EN 166).

Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example, EN374-3, level 6 breakthrough time (>480 min). Wear suitable overalls.

**Environmental Exposure Controls**

The primary hazard of silicic acid, sodium salt is the alkalinity. Avoid release to the environment.

**9. Physical and Chemical Properties**

**Information on Basic Physical and Chemical Properties**

- **Appearance** Liquid. Almost colorless.
- **Odor** Odorless.
- **Odor Threshold (ppm)** Not applicable.
- **pH-Value** Alkaline. 11-12
- **Freezing Point (°C)** Not applicable.
- **Melting Point (°C)** Not applicable.
- **Boiling Point (°C)** 100
- **Flash Point (°C) [Closed Cup]** Not applicable.
- **Evaporation Rate** Not applicable.
- **Flammability (Solid, Gas)** Not applicable.
- **Explosive Limit Ranges** Not applicable.
- **Vapor Pressure (mm Hg)** Not applicable.
- **Vapor Density (Air=1)** No data.
- **Density (g/ml)** 1.41 g/cm<sup>3</sup> (20°C), 42.0° Be, 11.75 lb/gal
- **Solubility (Water)** Soluble.
- **Solubility (Other)** No data.
- **Partition Coefficient** No data.
- **Auto Ignition Point (°C)** Not applicable.
- **Decomposition Temperature (°C)** Not applicable.
- **Viscosity (mPa. s)** Not applicable.
- **Explosive Properties** Not applicable.
- **Oxidizing Properties** Not applicable.

**Other Information** No data.

**10. Stability and Reactivity**

**Reactivity** See Possibility of Hazardous Reactions.

**Chemical Stability** Stable.

<b>Possibility of Hazardous Reactions</b>	When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.
<b>Conditions to Avoid</b>	See Possibility of Hazardous Reactions.
<b>Incompatible Materials</b>	See Possibility of Hazardous Reactions.
<b>Hazardous Decomposition Product(s)</b>	None Known.

## 11. Toxicological Information

### Acute Toxicity

- **Ingestion** All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation. Oral LD50 (rat) 3400 mg/kg bw.
- **Inhalation** Mist is irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity. Inhalation LC50 (rat)>2.06 g/m<sup>3</sup>.
- **Skin Contact** Material will cause irritation. Dermal LD50 (rat)>5000 mg/kg bw.
- **Eye Contact** Material will cause irritation.
- **Skin Corrosion/Irritation** Irritating to skin.
- **Serious Eye Damage/Irritation** Irritating to eyes.
- **Sensitization** Not sensitizing.
- **Mutagenicity** No evidence of genotoxicity. In vitro/in vivo negative.
- **Carcinogenicity** No structural alerts. IARC, NTP, OSHA, ACGIH do not list this as known or suspected carcinogen.
- **Reproductive Toxicity** No evidence of reproductive toxicity or developmental toxicity.
- **STOT–Single Exposure** Not classified. NOAEL oral (rat)>159 mg/kg bw/d
- **STOT–Repeated Exposure** Not classified.
- **Aspiration Hazard** Not classified.

## 12. Ecological Information

<b>Toxicity</b>	Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l; Aquatic invertebrates (Daphnia magna) EC50 (48 hour) 1700 mg/l
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<b>Persistence and Degradability</b>	Inorganic. Soluble silicic acids and sodium salts, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.
<b>Bioaccumulative Potential</b>	Inorganic. The substance has no potential for bioaccumulation.
<b>Mobility in Soil</b>	Not applicable.
<b>Results of PBT and vPvB Assessment</b>	Not classified as PBT or vPvB.
<b>Other Adverse Affects</b>	The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

### 13. Disposal Considerations

<b>Waste Treatment Methods</b>	Disposal of this material and its container to hazardous or special waste collection point. Disposal should be in accordance with local, state, or national legislation.
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### 14. Transport Information

<b>UN Number</b>	Not classified according to the United Nations "Recommendations on the Transport of Dangerous Goods". Not classified as hazardous under DOT or US Transport Recommendations. International Maritime Dangerous Goods (IMDG) Code – Not classified as hazardous.
<b>Proper Shipping Name</b>	Not applicable.
<b>Transport Hazard Class(es)</b>	Not applicable.
<b>Packing Group</b>	Not applicable.
<b>Environmental Hazards</b>	Not classified as a marine pollutant.
<b>Special Precautions for User</b>	Unsuitable containers: Aluminum.

Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code Not applicable.

## 15. Regulatory Information

### Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

- **TSCA Inventory Status** Reported/Included.
- **AICS Inventory Status** Reported/Included.
- **DSL/NDSL Inventory Status** Reported/Included. SARA TITLE III: Not an extremely hazardous substance under §302. Not a toxic chemical under §313. Hazard categories under §§311/312: Acute.
- **German Water Hazard Classification VwVwS:** Product ID number 1314, WGK class 1 (low hazard to water).
- **HMIS (Hazardous Material Information System) 2,0,0**

**Chemical Safety Assessment** Information available upon request.

## 16. Other Information

Data referenced in this SDS is from company-owned information and from data legitimately assessed by PQ Corporation through membership of Industry Consortia or other agreements. This includes data relating to toxicology, ecotoxicology, DNELs, PNECs, and other information in this SDS and its annex.

This SDS was last reviewed on 2/2015.

The following sections contain revisions or new statements: All sections.

<b>GHS Classification</b>	Skin Irrit.	2
	Eye Irrit.	2
<b>Signal Words</b>	Warning	

### Hazard Pictogram







<b>Hazard Statements</b>	H315: Causes skin irritation. H319: Causes serious eye irritation.
<b>Precautionary Statements</b>	P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair) – Remove/take off immediately contaminated clothing. Rinse skin with water/shower. P305+P351+P338: IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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