TEAM LAB
"INNOVATIVE SOLUTIONS"

T15 BASE ONE®
Safety Data Sheet (SDS)

1. Identification

Product Identifier/Product Name T15 BASE ONE®
- **Alternative Names** Silicic Acid, Sodium Salt (2.6<MR<=3.2)
- **CAS Number** 1344-09-8
- **EINECS Number** 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/m3 (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** — Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.
- **Eye/Face Protection** — Chemical goggles (EN 166).
- **Skin Protection** — 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/cm3 (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.

Possibility of Hazardous Reactions	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.
Conditions to Avoid	See Possibility of Hazardous Reactions.
Incompatible Materials	See Possibility of Hazardous Reactions.
Hazardous Decomposition Product(s)	None Known.

11. Toxological 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^3.
- **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

Toxicity	Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l; Aquatic invertebrates (Daphnia magna) EC50 (48 hour) 1700 mg/l

Persistence and Degradability	Inorganic. Soluble silicic acids and sodium salts, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.
Bioaccumulative Potential	Inorganic. The substance has no potential for bioaccumulation.
Mobility in Soil	Not applicable.
Results of PBT and vPvB Assessment	Not classified as PBT or vPvB.
Other Adverse Affects	The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

13. Disposal Considerations

Waste Treatment Methods	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.

14. Transport Information

UN Number	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.
Proper Shipping Name	Not applicable.
Transport Hazard Class(es)	Not applicable.
Packing Group	Not applicable.
Environmental Hazards	Not classified as a marine pollutant.
Special Precautions for User	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.

GHS Classification	Skin Irrit.	2
	Eye Irrit.	2
Signal Words	Warning	

Hazard Pictogram

Hazard Statements	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 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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