



## I. Chemical Product and Company Identification

Product Name: Super TSC 2 LT  
Identification #: 35-515-5052  
Product Use/Class: Scale Control  
Supplier: Nabors Completion and Production Services  
515 W. Greens Road, Suite 1100, Houston, TX 77067  
Supplier Tracking Code: 2161  
Emergency Contact: CHEMTREC 1 (800) 424-9300  
Prepared By: LZ  
Date Prepared: 09/25/2014

## II. Composition/Information on Ingredients

Chemical Name: Bis(hexamethylene triaminepenta  
(methylenephosphonic acid))  
CAS Number: Proprietary  
Percent by Mass Less Than: <10%

### Exposure Limits

Threshold Limit Value - Time Weighted Average: NE  
Threshold Limit Value - Short Term Exposure Limit: NE  
Permissible Exposure Limit - Time Weighted Average: NE  
Permissible Exposure Limit - Ceiling: NE  
Company Threshold Limit - Time Weighted Average: NE  
Skin: NE

## III. Hazardous Identification

Emergency Overview:

GHS HAZARDS CLASSIFICATION:  
Skin Corrosion/Irritation (Category 2)  
Serious Eye Damage/Irritation (Category 1)

GHS LABEL ELEMENTS:  
SIGNAL WORD: DANGER

HAZARD STATEMENTS:  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage

PRECAUTIONARY STATEMENTS:  
P264 – Wash the outside of protective gloves thoroughly before removing and wash hands and face thoroughly after handling.  
P280 - Wear protective gloves/eye protection/face protection.

RESPONSE STATEMENTS:  
P302 + P352 - If on skin, wash with plenty of water. P332 + P313 - If skin irritation occurs: Get medical advice. P362 + P364 - Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately get medical attention.

DISPOSAL STATEMENTS:  
P501 - Dispose of contents and container in accordance with local, state, and federal regulations.

Eye Contact:	May cause eye burns and permanent tissue damage.
Skin Contact:	May cause skin irritation. May cause permanent skin damage.
Inhalation:	May be severely irritating to nose, throat and lungs depending on concentration/duration of exposure.
Ingestion:	May be corrosive to mouth, esophagus and stomach.
Chronic Harards:	NI

Primary Route(s) of Entry:	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Eye Contact	<input type="checkbox"/> Ingestion
	<input type="checkbox"/> Skin Absorbtion	<input checked="" type="checkbox"/> Inhalation	

**IV. First Aid Measures**

Eye Contact:	In case of contact, immediately rinse cautiously with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Get immediate medical attention.
Skin Contact:	In a timely manner, remove contaminated clothing and wash the affected area thoroughly with plenty of soap and water. If irritation occurs, get medical attention. Wash contaminated clothing before reuse.
Inhalation:	If inhaled, move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation persists.
Ingestion:	If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Give milk or water to dilute stomach contents. Keep warm and quiet. Get medical attention.

**V. Fire Fighting Measures**

Flash Point:	Not Applicable
Auto Ignition Temperature:	N/A
Lower Explosive Temp.:	N/A
Upper Explosive Temp.:	N/A
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, carbon dioxide or suitable for surrounding area.
Unusual Fire and Explosive Harards:	Nonflammable, Material will not burn. Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.
Special Fire Fighting Procedures:	Fire fighters and others exposed to products of combustion should wear full firefighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent). Firefighting equipment should be thoroughly decontaminated after use. After a fire, wait until the material has cooled to room temperature before initiating clean-up activities.

## ***VI. Accidental Release Measures***

Steps to be Taken in Case Material is Released or Spilled:	<p><b>PERSONAL PRECAUTIONS:</b> Evacuate area of all unnecessary personnel. Ensure adequate ventilation. Wear protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection).</p> <p><b>ENVIRONMENTAL PRECAUTIONS:</b> Avoid dispersal of spilled material, runoff, contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.</p> <p><b>METHODS &amp; MATERIALS FOR CLEAN UP:</b> Prevent further leakage or spillage if you can do so without risk. Ventilate the area. For Small Spill: Contain and collect spillage with inert absorbent material and place into suitable properly labeled containers for prompt disposal. For Large Spills: Contain with dikes and transfer material to appropriate containers for reclamation or disposal. Neutralize washings with soda ash or lime. Flush spill area with water. Comply with all applicable local, state, and federal regulations.</p>
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## ***VII. Handling and Storage***

Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage:	Store in a cool, dry, well-ventilated area, away from incompatible substances. Keep container closed.

## ***VIII. Exposure Controls/Personal Protection***

**Engineering Controls:** Provide ventilation necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Respiratory Protection:** Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin Protection:** Wear appropriate chemical resistant gloves to prevent skin contact. When handling this material, gloves of the following type(s) should be worn: Nitrile Rubber

Wear apron, long sleeve shirt, long pants, and closed shoe to prevent contact with skin. Type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Eye Protection:** Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Other Protective Equipment:** An eye wash station and safety shower should be accessible in the immediate area of use.

**Hygienic Practices:** Clean water should be available to rinse eyes and skin in case of chemical exposure. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling, before breaks, eating, drinking, chewing gum, or using tobacco.

### **IX. Physical and Chemical Properties**

<b>Boiling Point:</b>	>212 °F (100 °C)	<b>Vapor Density:</b>	No data available
<b>Odor:</b>	Mild odor	<b>Odor Threshold:</b>	No data available
<b>Appearance:</b>	Clear light amber liquid	<b>Evaporation Rate:</b>	No data available
<b>Solubility in H2O:</b>	Complete.	<b>Specific Gravity:</b>	1.0277
			DENSITY: 1.0259 g/ml (8.5616 lbs./gal)
<b>Freeze Point:</b>	30 °F (1.11 °C)	<b>pH at 50.0%:</b>	4.5 – 6.0
<b>Vapor Pressure:</b>	No data available	<b>Viscosity:</b>	Like water
<b>Physical State:</b>	Liquid.		
<b>Coefficient of Water Oil Distribution:</b>	No data available		

### **X. Stability and Reactivity**

**Conditions to Avoid:** No data available

**Incompatibility:** Strong oxidizing agents and strong alkali.

**Hazardous Decomposition Products:** Under fire conditions

**Hazardous Polymization:** Will not occur.

**Stability:** Stable under normal conditions.

### **XI. Toxicological Properties**

**Toxicological Properties:** ACUTE TOXICITY/IRRITATION STUDIES: No data available

CARCINOGENICITY: No component present at levels = 0.1% is listed by ACGIH, IARC, NTP, OSHA or CA Prop 65.

GERM CELL MUTAGENICITY: No data available

REPRODUCTIVE TOXICITY: No data available

SYSTEMIC EFFECTS and CHRONIC TOXICITY: overexposure may cause skin or eye burns. Exposure to vapors may cause respiratory irritation.

STOT (Specific Target Organ Toxicity)-Single Exposure (GHS): No data available

STOT (Specific Target Organ Toxicity)-Repeated Exposure (GHS): No data available

ASPIRATION HAZARD: No data available

SYNERGISTIC EFFECTS: No data available

ADDITIONAL INFORMATION: RTECS: No data available

Oral: No information

Dermal: No information

Inhalation: No information

## ***XII. Ecological Information***

**Ecological Properties:** TOXICITY: The low pH (acidity) of undiluted or un-neutralized material may be harmful to aquatic life.

ECOTOXICOLOGICAL INFORMATION: No data available

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

PHOTODEGRADATION: No data available

MOBILITY IN SOIL: No data available

Ecotoxicity: N/A

Chemical Fate Information: N/A

## ***XIII. Disposal Consideration***

**Disposal Method:**

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or inappropriate. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste Characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

DISPOSAL: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Dispose of product and residues according to local, state, and federal health and environmental regulations.

CONTAINER DISPOSAL: Dispose of containers, waste containers, and residues as unused product and according to local, state, and federal health and environmental regulations.

**RCRA Status:**

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### ***XIV. Transportation Information***

DOT Proper Shipping Name:

Not DOT Regulated

DOT Technical Name:

DOT Hazard Class:

DOT Hazard Subclass:

DOT UN/NA Number:

Packing Group:

Resp. Guide Page:

## ***XV. Regulatory Information***

OSHA: No Information  
TSCA Status: The ingredients of this product are listed on the TSCA inventory or are exempt.  
CERCLA SARA: SARA TITLE III CLASSIFICATION:  
SECTION 302: No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.  
  
SECTION 311/312: Acute Health.  
  
SECTION 313: None  
  
CERCLA RQ: None

SARA Section 313  
Required Reporting:

## ***XVI. Other Information***

Other Information: The preceding information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change, and the conditions of handling and use or misuse are beyond our control, Superior Well Services makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein, and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.

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This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, or when used in conjunction with other products, exposures must be evaluated by the user so that appropriate handling practices and training programs can be established to ensure safe workplace operations. This information is confidential to Nabors Completion & Production Services Company (Nabors) and intended solely for the use of the individual or entity to whom they are directly distributed. Distribution or use beyond the individual or entity is strictly prohibited without the consent of Nabors.