

Material Safety Data Sheet #521 Tower Treatment

Section 1. Chemical Product and Company Identification

Product Name	#521 Tower Treatment	
Product Number	NTA 521 TT	
Manufacturer/ Supplier	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
Phone Number	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
D.O.T. Emergency Phone:	1-800-633-8253	
Date of Preparation	September 26, 2012	Revision Number 1.0

Section 2. Hazards Identification

Emergency overview **This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

DANGER!

Keep out of reach of children.
Keep container closed during storage. For institutional and commercial use.

Potential Acute Health Effects Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-corrosive for skin. Non-hazardous in case of inhalation.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Eyes May cause irritation and eye damage.

Skin May cause irritation

Inhalation Inhalation may cause irritation to mucous membranes and the lungs. Exposed individuals should be monitored for respiratory distress, bronchitis and pneumonia.

Ingestion May cause burning and irritation

Medical conditions aggravated by exposure: None

Potential Chronic Health There is no known effect from chronic exposure to this product.

Carcinogenic Effects None

Target Organs Skin, eyes, gastrointestinal tract and respiratory system.
This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910. 1200

Environmental Effects May cause long-term adverse effects in the aquatic environment. See Section 12 for more information

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Polyacrylic Acid	9003-01-4	>3		
Poly Maleic Acid	110-16-7	>4		
Sodium Hydroxide	1310-73-2	>4	2mg/m3	
2 Phosphono-1, 2, 4 Butanetricarboxylic	Acid37971-36-1	>5		

Section 4. First Aid Measures

Eye Contact	In case of contact with eyes, call physician immediately-preferably an ophthalmologist. Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	In case of contact with skin flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. See a physician.
Inhalation	If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	if swallowed, DO NOT induce vomiting. Drink large quantities of water as soon as possible followed by milk or 2 oz. of milk magnesia to drink to help with the burning effect. Seek medical attention.
General Advice	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
Notes to Physician	Symptoms may not appear immediately.

Section 5. Fire Fighting Measures

Flammability	Non flammable
Fire Fighting Media and instructions	Water spray, foam, Carbon Dioxide. The amount of HF vapor released from ruptured containers will be increased by heat. In such case full protective equipment may be needed.
Products of Combustion	May include, and are not limited to: Oxides of potassium.
Special Remarks on Fire Hazards	Product is non-flammable
Special Remarks on Explosion Hazards	Product is non-flammable
Sensitivity to Mechanical Impact	Not available
Sensitivity to Static Discharge	Not available
Protection of Fire Fighters	Keep upwind of fire. Wear full fire fighting turn-out gear (full bunker gear) and respiratory protection (SCBA)

Section 6. Accidental Release Measures

Personal Precautions	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Do not breathe vapor, get in eyes, on skin, or on clothing. Keep personnel upwind of spill and do not enter area unless equipped with full protective equipment and self-contained breathing apparatus.
Methods for Containment	Contain and/or absorb spill with inert material, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions	Neutralize with lime and flush with water. Run-off to sewer may create a hazard in the case of large spills; notify authorities.
Methods for Clean Up	Soak into absorbent material. Spill of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes. DO NOT swallow. DO NOT breathe gas / fumes / vapor / spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. After handling always wash hands thoroughly with soap and water.
Incompatibility	No incompatible product according to our data base
Storage	Keep out of the reach of children. Not for use or storage in or around the home. Keep container tightly closed, keep contents from freezing.

Keep out of reach of children.
Keep container closed during storage.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	
Personal Protection	Good general ventilation should be sufficient to control airborne levels.
Eyes	Chemical safety goggles and face shield
Body	Wear suitable protective clothing, rubber boots. In considerable exposure of full rubber suit should be used. Eye wash fountain and safety shower highly recommended.
Respiratory	U.S. bureau of mines approved
Hands	Rubber or neoprene
Protective Clothing (Pictograms)	



Exposure Limits See Section 2 For Applicable Exposure Limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Light yellow to an amber Liquid
Molecular Weight	N/A
Ph	9-10
Boiling/Condensation Point	Above 212 F
Melting/Freezing Point	N/A
Critical Temperature	N/A
Instability Temperature	N/A
Specific Gravity	(H20 = 1): 1.1
Vapor Pressure	(Non-Aerosols) (mm Hg and Temperature): N/A
Vapor Density	(Air = 1)
Volatility	N/A
VOC	N/A
Evaporation Rate	(H20 = 1): N/A
Dispersion Properties	N/A
Solubility	Complete in water
The Product is:	
Auto-ignition Temperature	N/A
Flash Points	Non-Flammable
Flammable Limits	N/A
Fire Hazards in Presence Of Various Substances	Product is non-flammable
Explosion Hazards in Presence of Various Substances	Product is non-flammable
Odor	Slight odor
Color	Light yellow to an amber

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substance	Strong Acids
Hazardous Decomposition Products	Oxides of carbon

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion
Toxicity to Animals	
Acute Effects on Humans	
Eyes	May cause irritation and eye damage.
Skin	May cause irritation
Inhalation	Inhalation may cause irritation to mucous membranes and the lungs. Exposed individuals should be monitored for respiratory distress, bronchitis and pneumonia.
Ingestion	May cause burning and irritation
Chronic Effects on Humans	There is no known effect from chronic exposure to this product.
Special Remarks on Toxicity to Animals	Not available
Special Remarks on Chronic Effects on Humans	Not available

Section 12. Ecological Information

Ecotoxicity	May cause long-term adverse effects in the aquatic environment.
BOD5 and COD	Not available
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available
Special Remarks on the Products of Biodegradation	Not available

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)	Not DOT Re
TDG Classification	Not controlled under TDG (Canada)
PIN UN, Proper Shipping Name, PG	Not a "marine pollutant"
Maritime Transportation	Not available

Special Provisions for Transport Not available

Section 15. Regulatory Information and Pictograms

Regulatory Lists No products were found.

Other Regulations Not available, or of its ingredients

Other Classifications

HCS (U.S.A.) Not controlled under HCS (United States)

USA Regulatory Lists This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)
SARA 302 Extremely Hazardous Substances - Not listed
SARA 311 - 1. Immediate (acute) health hazard
SARA 313 Toxic Chemical List – Not listed

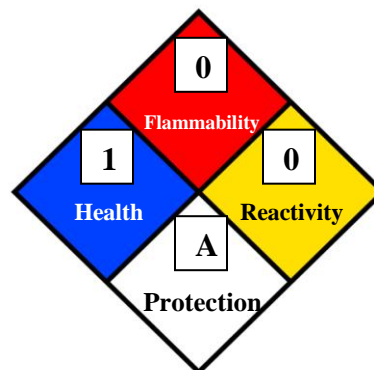
DSD (EEC) This product is not classified according to the EU regulations.

International Regulations Lists No Products were found.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



WHMIS (Classification) Not controlled under WHMIS (Canada).

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry Date 3 (Three Years) from the date of preparation indicated in Section 1

Validated by _____ **Verified by** _____

Printed

Information Contact

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on _____ **NuTech Specialties, Inc.**