SAFETY DATA SHEET

Section 1	Chemical Product and Company Information	Page E1 of E2					
	80 Northwest Blvd. Nashua, NH 03063 (800) 225-3739	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.					
Product	SULFUROUS ACID, 6% SOLUTION						
Synonyms	Sulfur Dioxide Solution						
Section 2 Hazards Identification							
Pictograms Target orga GHS Classi Skin corrosi Acute toxicit GHS Label H314: Caus	d: DANGER :: GHS05 / GHS07 ins: Eyes, Central nervous system, Liver, Kidneys. ification: on (Category 1B) ty, inhalation (Category 4) information: Hazard statement: es severe skin burns and eye damage. iful if inhaled.	 Precautionary statement: P260: Do not breathe mist/vapours/spray. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. 					

Ca Prop 65: This product contains a chemical known to the State of California to cause reproductive toxicity (Sulfur dioxide, developmental).

Section 3 Composition / Information	Composition / Information on Ingredients						
Chemical Name	CAS #	%	EINECS				
Sulfurous acid, 6% solution	7782-99-2	100%	231-973-1				
Contains: Water Sulfur dioxide	7732-18-5 7446-09-5	94% 6%	231-791-2 231-195-2				

Section 4 First Aid Measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: CAUSES SEVERE SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Releases sulfur dioxide on heating. Contact with most metals causes formation of flammable and explosive gydrogen gas.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Sensitive to air.

Section 8	Exposure Controls / Personal Protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)				
Exposure Linits.	Sulfur dioxide	STEL: 0.25 ppm / 0.65 mg/m ³ (A4)	TWA: 5 ppm / 13 mg/m ³	TWA: 2 ppm / STEL: 5 ppm				

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low. Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Physical & Chemical Properties Section 9 Appearance: Clear, colorless liquid Evaporation rate (= 1): Data not available Partition coefficient: Data not available Odor: Pungent, suffocating, sulfur odor Flammability (solid/gas): Data not available Auto-ignition temperature: Data not available Explosion limits: Lower / Upper: Data not available Odor threshold: Data not available Decomposition temperature: Data not available pH: Data not available Vapor pressure (mm Hg): Data not available Viscosity: Data not available Molecular formula: H₂SO₃ Melting / Freezing point: Data not available Vapor density (Air = 1): Data not available Boiling point: Data not available Relative density (Specific gravity): Approximately 1.03 Molecular weight: 82.08 Flash point: Data not available Solubility(ies): Soluble in water with release of heat Section 10 Stability & Reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures and heat. Incompatible materials: Strong oxidizers, bases, halogens and acetylides. Hazardous decomposition products: Emits highly toxic fumes of sulfur dioxide. Section 11 **Toxicological Information** Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans [Sulfur dioxide]. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product contains a chemical known to the State of California to cause reproductive toxicity (Sulfur dioxide, developmental) Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Mists and vapors cause irritation of respiratory tract. Can cause systemic acidosis or pulmonary edema at moderate concentrations. Ingestion: Corrosive to the mouth, throat and esophagus, with immediate pain and burning. Uncontrolled vomiting may occur. Skin: Corrosive. Symptoms of redness, pain, and severe burn can occur. Eyes: Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. Signs and symptoms of exposure: Chronic Exposure: Repeated exposure may cause damage to the tissues of the mucous membranes, upper respiratory tract, eyes and skin. Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: WT2775000 Section 12 **Ecological Information** Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available Bioaccumulative potential: No data available PBT and vPvB assessment: No data available Other adverse effects: This material is a strongly acidic aqueous solution and may cause adverse environmental effects. When diluted with a large amount of water, this material released directly or indirectly, is not expected to have a significant impact. **Disposal Considerations** Section 13 These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Transport Information (US DOT / CANADA TDG) Section 14 UN/NA number: UN1833 Shipping name: Sulfurous acid Hazard class: 8 Packing group: || Reportable Quantity: No Marine pollutant: No 2012 ERG Guide # 154 Exceptions: Limited quantity equal to or less than 1 L Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. WHMIS Classification DSL NDSL Component TSCA CERLCA (RQ) RCRA code Sulfurous acid Listed Not listed Not listed Listed Not listed E Section 16 **Additional Information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.