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CHEMTREC® 24 hr Emergency: US 800-424-9300;
CHEMTREC® 24 hr Emergency: International 703-527-3887

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION: Indicator Solution Free / Total

Catalog Numbers-HF scientific: 14274 09935 09936 09937 09938
09947 09948

PRODUCT USE: Analytical / Laboratory Reagent

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

2. HAZARDS IDENTIFICATION

TARGET ORGANS: Eyes, Skin, Respiratory System

ACUTE TOXICITY: Corrosive. May Cause Severe Burns to Skin, Eyes, and Respiratory System.

CHRONIC TOXICITY: Long Term Exposure to Mist or Vapors May Cause Damage to Teeth. Chronic Exposure to Mists Containing Sulfuric Acid is a Cancer Hazard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-Existing Skin Disorders, Eye Problems, or Impaired Respiratory Function May Become More Susceptible to the Effects of the Substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Sulfuric Acid	Percent
CAS No.	7664-93-9	<7%

Component	Deionized Water	
CAS No.	7732-18-5	>93%

4. FIRST AID MEASURES

EYE CONTACT: Immediately Flush Eyes With Gentle but Large Amounts of Water for at Least 15 Minutes. Contact a Physician.

SKIN CONTACT: Immediately Flush Skin with Plenty of Water for at Least 15 Minutes While Removing Contaminated Clothing or Shoes. Wash Clothing Before Reuse. Call a Physician.

INHALATION: Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Call a Physician.

INGESTION: DO NOT INDUCE VOMITING. Give Large Quantities of Water. Never Give Anything By Mouth to an Unconscious Person. Call a Physician.

5. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA

FLAMMABILITY LIMITS: Substance is not Combustible, but is a Strong Oxidizer and its Heat of Reaction with Reducing Agents or Combustibles May Cause Ignition.

EXTINGUISHING MEDIA: Dry Chemical, Foam, Water, or Carbon Dioxide.

6. ACCIDENTAL RELEASE MEASURES

Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel From Entering. Neutralize with Alkaline Material (Soda Ash, Lime), then Absorb with an Inert Material and Place in Chemical Waste Container for Pickup.

7. HANDLING AND STORAGE

HANDLING: Wear Personal Protective Equipment Such As Safety Glasses/Splash Goggles, Latex or Nitrile Gloves, and Lab Coat.

STORAGE: Store in Cool, Dry, Ventilated Storage Area. Protect from Physical Damage and Keep Out of Direct Sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA PEL: 1ml/m³

ACGIH TLV: 0.2 mg/m³ T

NIOSH RELs: 1ml/m³

PERSONAL PROTECTION EQUIPMENT: Safety Glasses or Splash Goggles, Latex or Nitrile Gloves, Lab Coat

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, Colorless Solution

ODOR: Odorless

SOLUBILITY: Soluble in Water

DENSITY: 1.0-1.1

pH: 1.5-2.5, Acidic Solution

BOILING POINT: No Information Found

10. STABILITY AND REACTIVITY

Stable Under Normal Conditions of Use and Storage. Toxic Fumes of Oxides of Sulfur When Heated to Decomposition. Reacts with Carbonates to Generate Carbon Dioxide Gas, and with Cyanides and Sulfides to Form Poisonous Hydrogen Cyanide and Hydrogen Sulfide Respectively.

11. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, Skin, Inhalation, Ingestion

Teratogen Status: None Found

Mutagen Status: None Found

Reproductive Toxicity: None Found

Carcinogen Status: The International Agency for Research on Cancer (IARC) has Classified "Strong Inorganic Acid Mists Containing Sulfuric Acid" as a Known Human Carcinogen. This Classification Applies Only to Mists Containing Sulfuric Acid and Not to Sulfuric Acid or Sulfuric Acid Solutions.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This Material May Be Toxic to Aquatic Life

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

14. TRANSPORT INFORMATION

US DOT (United States Department of Transportation):

PROPER SHIPPING NAME: Sulfuric Acid With Not More Than 51% Acid

HAZARD CLASS: 8

UN NUMBER: UN2796

PACKING GROUP: II

IATA (International Air Transport Association):

PROPER SHIPPING NAME: Sulfuric Acid With 51% or Less Acid

HAZARD CLASS: 8

UN NUMBER: UN2796

PACKING GROUP: II

IMO (International Maritime Organization):

PROPER SHIPPING NAME: Sulfuric Acid With 51% or Less Acid

HAZARD CLASS: 8

UN NUMBER: UN2796

PACKING GROUP: II

15. REGULATORY INFORMATION

US / CANADA INFORMATION:

SARA/Title III Section 302: RQ=1000

SARA/Title III Section 313: Listed

SARA/Title III Section 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No

US TSCA Inventory: Listed

EC Inventory: Listed

CANADA DSL: Listed

16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.