Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: DC2300-H, DC2300-E, DC2300-I, DC2300-J, DC2300-K, DC2300-M

Product Identity: Decompo Reagent

Chemical Family: Not Applicable
Synonyms: Not Applicable
Recommended Use: Laboratory chemicals

Manufacturer’s Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 06/01/08
Revision Date: 07/28/10, 10/5/10, 02/19/12

Section 2 – Hazard Identification

Emergency Overview: Irritant to the skin, eyes, and mucous membranes. Avoid contact with skin, eyes, and clothing. Wash areas of contact with water. If ingested, dilute with water and get medical attention.

Appearance: White Solid Powder
Odor: Odorless
Target Organs: Eyes, skin, mucous membrane, and upper respiratory tract.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause slight irritation, burning, stinging, and possible damage to the cornea and conjunctiva.
Skin: May cause serious damage, redness, pain, and skin burns.
Ingestion: Corrosive. May cause burning of the mouth, throat, and stomach, leading to death. Can cause, diarrhea, sore throat, and vomiting.
Inhalation: Extremely harmful to tissues of the mucous membrane, and upper respiratory tract, burning sensation, coughing, wheezing, shortness of breath, laryngitis, nausea, vomiting, and headache.

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)

Aggravated Medical Conditions: None
These chemicals are considered hazardous by OSHA.
See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Sodium Sulfate, CAS# 7757-82-6, >90% w/w
Ammonium Persulfate, CAS# 7727-54-0, >20% w/w

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.
Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.
Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable
Autoignition Temperature: No information available.
Explosion Limits Upper: No data available
Explosion Limits Lower: No data available
Extinguishing Media: Use any means suitable to extinguish surrounding fire
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Avoid contact with oxidizable materials. May explode on contact with organic or metal powders.

Fire Fighting Instructions / Equipment: Use normal procedures. Poisonous gases may be produced in fire. Use protective clothing. Use NIOSH-approved breathing equipment.

Hazardous Combustion Products: No information Available

Sensitivity to mechanical impact: No information available.

Sensitivity to static discharge: No information available.

Specific Hazards Arising from the Chemical: No information Available

NFPA Rating: (estimated) Health: 2; Flammable: 0; Reactivity: 2

Section 6 – Accidental Release Measures

Personal Precautions: Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Should not be released into the environment.

Methods for Containment and Clean Up: Ventilate area of spill. Place in a container for disposal. Always obey local regulations.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

Storage: Protect from freezing and physical damage. Store as Oxidizer

Section 8 – Exposure Controls, Personal Protection

Sodium Sulfate, CAS# 7757-82-6, ACGIH TLV: NA, OSHA PEL: NA
Ammonium Persulfate, CAS# 7727-54-0, ACGIH TLV: 5 mg/m3, OSHA PEL: 5 mg/m3

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.
Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Local/general exhaust is recommended. A dusk mask respirator can be worn if necessary to minimize exposure to dust particles.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: White Solid Powder
Odor: Odorless % Volatility: No Information Available
Boiling Point: No Information Available Specific Gravity: Approx 2
Melting Point: No Information Available Vapor Pressure: No Information Available
Vapor Density: No Information Available Flash Point: Not Applicable
Evaporation Rate: No Information Available Coefficient of water/oil distribution: Not Available
pH: No Information Available Odor Threshold: Not Available
Flammability: No Information Available Decomposition Temperature: >100 C
Solubility: Slightly Partition Coefficient n-octanol/water: No data available
Relative Density: No Information Available
Molecular Weight: No Information Available

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatible Materials: Strong oxidizer, nitric acid, chlorine. Solutions are strong acids and react violently with bases.
Hazardous Decomposition Products: Ammonia, oxides of sulfur, nitrogen, and carbon
Hazardous Polymerization: Does not occur
Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information
Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 oral-rat: 820 mg/kg  LC50 inhalation-rat: NA

Irritation: Irritating to skin and eyes
Toxicologically Synergistic: No Information Available

Chronic Exposure
Carcinogenicity: There are no known carcinogenic chemicals in this product
Sensitization: No information available.
Mutagenic Effects: No information available.
Reproductive Effects: No information available.
Developmental Effects (Immediate/Delayed): No information available.
Teratogenicity: No information available.
Other Adverse Effects: No information available.
Endocrine Disruptor Information: No information available

Section 12 – Ecological Information

Ecotoxicity: Do not empty to drain.
Persistence and Degradability: No Information Available  Mobility: No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Place in separate labeled container for disposal. Small quantities may be mixed with large volumes of water in fume hood, neutralize with sodium carbonate, and pour down drain with 50 times its volume needed with water. All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT – UN1479, Oxidizing Solid, N.O.S., (Ammonium Persulfate), 5.1, III

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.
Canada DSL: These chemicals are listed on Canada’s DSL list.
TSCA: These chemicals are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: NA
WHMIS: E: Oxidizing Material.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.