



Safety Data Sheet

NECi Superior Enzymes
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Nitrate Test Kits: Field Kits (All Formats)

DRY COLOR REAGENT MIX

Color Reagent: Citric Acid and Griess Reagents Sulfanilamide and N-(1-Naphthyl)ethylenediamine Hydrochloride (NED).

Color reagent mix contains 95% Citric Acid, 4.9% Sulfanilamide, 0.1% NED

Packed 0.20 g per ampoule

None of these reagents are classed as hazardous. No UN/NA codes.

No applicable regulations for international transportation.

Chemical Name	CAS Number	Chemical Formula	Source
Citric Acid	77-92-9	C ₆ H ₈ O ₇	Research Organics #1435C
Sulfanilamide	63-74-1	C ₆ H ₈ N ₂ O ₂ S	Sigma-Aldrich #S9251
NED (N-(1-Naphthyl)ethylenediamine Hydrochloride)	1465-25-4	C ₁₂ H ₁₄ N ₂ .2HCl	Sigma-Aldrich #N9125

Section 1: Chemical Identification

Common name, Chemical name, CAS number, Formula: See Table Above

Section 2: Composition

Chemical and Common names: see Table Above

Principal Hazardous Component: NA Biologic Activity: NA

Exposure Limits: Not established

Section 3: Hazards Identification

Threshold Limit Value: varied, but below known limits as supplied

Section 4: First Aid Measures

Any chemical may cause skin or eye irritation. Avoid contact with Color Reagent.

Inhalation: Remove affected individual from source, then seek medical attention.

Eyes: Remove contact lenses if present. Flush thoroughly with saline or water. Contact physician if irritation or redness persists.

Skin: Remove contaminated clothing, wash material from skin using soap and water. Contact physician if irritation develops. Clean clothing before reuse.

Ingestion: May be harmful if swallowed. Obtain medical attention as required.

Section 5: Fire Fighting Measures

No special fire fighting equipment, media, or clothing is required.

Auto-ignition temperature: N/A **Flash Point:** N/A **Flammable Limits in Air (% by volume):** N/A

Unusual fire or Explosion Hazards: N/A **Stability:** Degradation products are not hazardous

Section 6: Accidental Release Measures

Wear appropriate protective equipment for storage and when handling. No additional precautions are required.

If Released or Spilled: Wear approved goggles and protective gloves. Collect spilled powders or solids into waste container for disposal. Avoid physical contact during removal, especially any dust. Use normal cleanup procedures for liquid spills. Wash area thoroughly with water. Wash contaminated clothing prior to reuse.

Waste Disposal: Dispose of waste in accordance with all applicable Federal, State, and Local regulations.

Section 7: Handling and Storage

Store dry at RT. Protect from light by storing in dark containers. **Handling:** Wear appropriate protective equipment; see

Section 8. Avoid generation of dust or aerosols.

Section 8: Exposure Controls and Personal Protection

Respiratory Protection: (approved dust mask or respirator) is advisable when handling a powdered form of a product in order to avoid breathing particulates. Wear protective gloves and goggles or safety glasses to prevent direct contact with skin or eyes. Sensitive individuals should wear protective clothing.

Ventilation: Advisable, standard vent fan and local exhaust as required.

Section 9: Physical and Chemical Properties

Appearance and Odor: Powders, white

Solubility in Water: Soluble in water

Section 10: Stability and Reactivity

Stability: Stable

Hazardous Decomposition Products: None Known

Hazardous Polymerization:

Will Not Occur

Section 11: Toxicological Information

Acute Overexposure: May cause skin, eye, or respiratory irritation upon contact

Chronic Overexposure: May cause allergic reactions in certain sensitive individuals

The toxicological properties of this material have not been fully investigated. Always follow Good Laboratory and Industrial Hygiene Practices and wear personal protective equipment when handling chemicals.

Section 12: Ecological Information

Environmental Hazard: None Known

Section 13: Disposal Considerations

Dispose of waste in accordance with all Local, State, and Federal regulations. Chemical residues are generally classified as special waste: therefore transportation, storage, treatment, and disposal must be conducted in compliance with all applicable regulations. Rinse empty containers thoroughly before recycling.

Section 14: Transport Information

Proper Shipping Name: Not regulated

Hazard Class: N/A

Packaging Group: N/A

Reportable Quantity: N/A

Labels Required: N/A

International Transportation Requirements: Not Regulated

UN/NA Code: N/A

Section 15: Regulatory Information

US Federal and State: Materials are exempt for the US Environmental Protection Agency Toxic Controlled Substances Control Act (TSCA) inventory. Not known to be listed or regulated under any State jurisdiction.

International: EC: /R42/43, May cause sensitization by inhalation and skin contact. S36, wear suitable, protective clothing.

Section 16: Other Useful Information

The information provided in this SDS is believed to be correct but does not purport to be all inclusive. The information is presented as a guide. NECi assumes no liability for its accuracy or completeness. NECi does not assume liability for damages resulting from handling, use, and/or disposal of these products.