


Nutrafin Nitrate Test Kit
Reagent #2
A7847

Section I. Product identification and uses	
Product name	Reagent#2 Nitrate Test Kit
Chemical formula	Mixture
Chemical family	Mixture
Material uses	Reagent to determine nitrate in water.

Section II. Composition and information on ingredients					
Ingredients	Conc. (%)	CAS #	TLV	LD50	LC50
1,2-Propanediol	60 to 100	57-55-6	Not established by ACGIH AIHA WEEL 10mg/m3 (Aerosol only).	(Oral) acute: 20000mg/kg (rat); 18500mg/kg (rabbit). (Dermal) acute: 20800mg/kg (rabbit).	
Acetic acid, glacial	10 to 30	64-19-7	Exposure limits: ACGIH TWA 10ppm (25mg/m3) STEL 15ppm (37 mg/m3).	(Oral): Acute: 3310mg/kg (rat). (Dermal): acute: 1060mg/kg (rabbit).	(Vapor) acute 5620ppm (mouse 1 hour); 16000ppm (rat 4 hours).
N-(1-Naphtyl)-Ethylenediamine dihydrochloride	1 to 5	1465-25-4	Not established		

Section III. Hazardous ingredients		
WHMIS	Classification	Transport of dangerous goods
	E, B3	8

Section IV. Physical data	
Physical state and appearance/Odour	Liquid with pungent, vinegar like odour.
pH	<1
Percent volatile	>90%
Freezing point	Not available
Boiling point	Not available
Specific gravity	1 @ 20°C

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Vapour density	Not available
Vapour pressure	Not available
Evaporation rate	Not available
Solubility	Soluble in water

Section V. Fire and explosion data		
Flammability conditions	Non flammable	
Fire extinguishing procedures	Use extinguishing media appropriate to surrounding fire conditions. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full face piece operated in a pressure demand or other positive pressure mode.	
Fire and explosion hazards	Combustible liquid. Vapour forms explosive mixture with air. Emits toxic fumes under fire conditions. Contact with oxidizers may cause fire and/or explosion. Vapour may travel considerable distance to sources of ignition and flash back, eliminate all sources of ignition.	
Fire degradation products	Emits toxic fumes under fire conditions. Oxides of carbon and nitrogen, hydrogen chloride, propionaldehyde.	
Flash point	Flammable limit (%volume)	Auto-ignition temperature
CLOSED CUP : 39°C (Acetic Acid, glacial)	Minimum	Maximum
	LEL – 4% Acetic Acid, glacial	UEL - 19.9% Acetic Acid, glacial
		426°C

Section VI. Reactivity data	
Stability	Stable under normal conditions. Avoid high temperature and contamination.
Incompatibility	Oxidizing agents. Organic materials. Alkalis. Finely powdered metals.
Condition of reactivity	Product does not polymerize.
Hazardous decomposition products	Thermal decomposition products are toxic and include hydrogen chloride gas.

Section VII. Toxicological properties	
Route of Entry	Ingestion and inhalation. Eye contact. Skin contact.
Effects of acute exposure	Corrosive! Dangerous by ingestion, inhalation or skin absorption.
Eye	Cause severe burns. Permanent blindness may occur.
Skin	Causes severe burns if the exposed area is not washed immediately.
Inhalation	If inhaled, may cause nose and throat irritation.
Ingestion	Swallowing this material causes severe burns to the mouth, throat and stomach.

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Effects of chronic overexposure	May cause liver and kidney damage. To the best of our knowledge, the chemical, physical and toxicity data of this product has not been fully investigated.
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Section VIII. First aid measures	
Eye contact	Rinse immediately with plenty of running water for a minimum of 30 minutes while lifting upper and lower eyelids from time to time. If irritation persists, repeat flushing. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water for a minimum of 20 minutes.
Inhalation	Remove victim to fresh air. If symptom persists obtain medical attention.
Ingestion	Have conscious person drink several glasses of water or milk. Obtain medical attention immediately.

Section IX. Preventive measures	
Protective clothing in case of spill and leak	Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Spill and leak	Absorb spill with inert materials such as clays, sand, earth or vermiculite and place in closed container for disposal. Clean the spill area after product complete removal. DO NOT empty into drain.
Waste disposal	According to all applicable regulations.

Section X. Handling and Storage	
Store way from bases. Store in cool, well ventilated area. Keep containers closed.	

Section XI. Protective measures	
Protective clothing	Rubber or plastic gloves. Full face-shield and chemical splash goggles or face mask. Protective clothing, apron. Rubber boots.
Engineering controls	Use sufficient ventilation system.

Section XII. Disposal considerations	
Product recommendation	See waste disposal above.
Unclean packaged recommendation	See waste disposal above.

Section XIII. Ecological Information	
None available	



MATERIAL SAFETY DATA SHEET

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Section IXV. Other information

Special precautions or comments	Corrosive! Combustible liquid! Causes severe burns which may be delayed! Risk of serious damage to eyes. Do not breathe vapour. Avoid all contact with the product. Keep away from heat, sparks and flame. RTECS NO: AF 1225000 (ACETIC ACID GLACIAL) RTECS NO: KV 5330000 (N-(1-NAPHTYL)-ETHYLENEDIAMINE DIHYDROCHLORIDE). RTECS NO: TY 2000000 (1, 2-PROPANEDIOL).
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