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## Material Safety Data Sheet

### 1. Product Identification

Product Name : Elyte 3 Kit (NA<sup>+</sup>, K<sup>+</sup> & Cl<sup>-</sup> Colorimetric Method)

Catalog Number : ELY 030

### 2. Composition / Information on Hazardous Ingredients

Chemical Name	CAS #	% W/V	Exposure Limits in Air				
			ACGIH		OSHA		OTHER
			TLV	STEL	PEL	STEL	

#### Reagent 1: Precipitating Reagent

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER
Ethanol	64-17-5	85	1000PPM	N/A	1000PPM	N / A	N/A

#### Reagent 2: N/A.

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER

#### Reagent 3: N/A.

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER

#### Reagent 4: Potassium Reagent

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER
Formaldehyde	50-00-0	10%	0.3 ppm	N/A	0.75ppm	2.0ppm	N/A

#### Reagent 5: N/A

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER

#### Reagent 6: Chloride Reagent

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER
Ferric Nitrate	7782-61-8	1%	1mg/m <sup>3</sup>	N/A	2mg/m <sup>3</sup>	N/A	N/A

#### Reagent 7: N/A

Chemical Name	CAS #	% W/V	TLV	STEL	PEL	STEL	OTHER

### 3. Hazard Identification

#### Primary Routes of Entry:

Inhalation, ingestion, and eye contact.

**Inhalation:**

Inhalation of Vapours, mists, or sprays of these components may irritate the nose, throat, and lungs. Symptoms are generally alleviated upon breathing fresh air.

**Ingestion:**

Though not a likely route of occupational exposure, ingestion of this product, especially in large quantities, May cause gastric distress. Symptoms may include vomiting and temporary loss of equilibrium.

**Skin Contact:**

Formaldehyde : can cause burns if it comes in contact with the skin.

**Eye Contact:**

If the liquid or Vapours come in contact with the eyes, Ethanol: mild irritation may develop;  
Formaldehyde : can cause burns and may damage eyes.

**Chronic Exposure:**

N/A

**Medical Conditions Aggravated by Exposure:**

Formaldehyde: persons with pre existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

**Health Effects:**

This product's vapours or liquid can cause skin or eye damage, and irritate the respiratory tract. Health hazards given on this data sheet apply to concentrated solution of formaldehyde.

#### 4. First Aid Measures

**Inhalation:**

If breathing becomes difficult, remove victim to fresh air. Seek medical attention.

**Ingestion:**

Get medical attention if there has been ingestion of this product.

**Skin Contact:**

Immediately flush skin with plenty of water for atleast 15 minutes. Remove contaminated cloths and shoes. Get medical attention immediately.

**Eye Contact:**

Immediately flush eye(s) with large volume of water for atleast 15 minutes, occasionally lifting the lower lids. Get medical attention immediately.

#### 5. Fire Fighting Measures

**Flash Point (Method used):** N/A      **Flammable Limits – LEL:** N/A      **UEL:** N/A

**Extinguishing Media:**

Use fire-extinguishing media appropriate for site conditions.

**Special Fire Fighting Procedures:**

Structural firefighting gear and self-contained breathing apparatus will provide adequate protection if this product is in a fire area.

**Unusual Fire and Explosion Hazards:**

Ethanol: highly flammable and is likely to catch fire; Ferric Nitrate: promotes fire started and impedes fire fighting.

#### 6. Accidental Release Measures

**Steps to be taken in case material is Released or Spilled:**

Use an absorbent material to contain / pick up the spilled solution. Place all spill residues into a suitable container, seal, label and hold for disposal.

## 7. Handling and Storage

Refer to packet insert for additional information on handling and storage procedures.

## 8. Exposure Controls and Personal Protection

### Ventilation Data:

A system of local and / or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### Respiratory Protection:

Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow OSHA respirator regulations (29CFR1910.134) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide worker protection for given working conditions, level of airborne concentration, and presence of sufficient oxygen.

### Protective Gloves:

Wear appropriate protective gloves to prevent skin contact.

### Other Protective Equipment:

Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.

### Other Engineering Controls:

Eye wash stations and deluge showers.

### Work Practices:

Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with eyes or skin. Do not place in mouth.

### Hygienic Practices:

Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

## 9. Physical And Chemical Properties

### For All Components Unless Otherwise Indicated

Relative Vapour density(air = 1) :	N/A	Evaporation rate( nBuAc = 1):	N/A
Specific Gravity (water = 1) :	N/A	Freezing / Melting Point :	N/A
Solubility in Water :	Soluble	Boiling Point :	N/A
Vapour Pressure, mm Hg @ 20°C:	N/A	pH :	N/A

### Odour and Appearance Information

**Reagent 1:** Clear, Yellowish liquid

**Reagent 2:** N/A

**Reagent 3:** N/A

**Reagent 4:** Pale pinkish color liquid

**Reagent 5:** N/A.

**Reagent 6:** pH=1.4, Pale yellow color liquid

**Reagent 7:** N/A.

### 10. Stability and Reactivity

**Incompatibility ( Materials to Avoid):**

Strong oxidizer. Keep away from all flammable substances.

**Hazardous Decomposition Products:**

N/A.

**Will Hazardous Polymerization Occur?**

N/A.

**Conditions to Avoid / Polymerization:** N/A.

**Is the Product Stable?**

Yes, under normal handling and storage conditions.

**Conditions to Avoid/stability**

Stable Solution. Avoid from naked flame or sparks

### 11. Toxicological Information

**Toxicity Data:**

Ferric Nitrate: Oral rat LD50: 3250mg/kg.

**Reproductive effects:**

N/A.

**Target organ Effects:**

Eyes, skin, Central nervous systems, & cardiovascular systems.

**Carcinogenicity:** No

CHEMICAL NAME	CAS #	% W/V	NTP Carcinogen		IARC	OSHA
			Known	Anticipated		
N/A.						

### 12. Ecological Information

**Environmental Fate / Stability:**

N/A

**Effect of Material on plants or animals:**

N/A

**Effect of Chemical on Aquatic Life:**

N/A

### 13. Disposal Considerations

**EPA Waste Number and Proper Waste Disposal Method:**

Please consult local, state and federal regulations for additional guidance on disposal.

### 14. Transportation Information

**Is this Material Hazardous?** Not regulated under transportation regulations.

Proper Shipping Name : N/A	Packing Group: N/A	UN Number: N/A
Hazard Class Number : N/A		

### 15. Regulatory Information

NA.

### 16. Other Information

NA => NOT APPLICABLE or NO INFORMATION