Coral Clinical Systems

Plot No. M – 46, Phase III B, Verna Ind. Estate,
Verna, Goa – 403 722, INDIA
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Material Safety Data Sheet

1. Product Identification

Product Name : **Creatinine Kit (Mod. Jaffe's kinetic method)**

Catalog Number : CRE 020 / CRE 021 / CRE 022 / CRE 023

2. Composition / Information on Hazardous Ingredients

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

Reagent 1: No hazardous components >1%, >0.1 % carcinogens

Reagent 2: **Buffer Reagent**

Sodium Hydroxide	1310-73-2	1.25%	N / A	2 mg/m^3C	2 mg/m^3	N / A	NIOSH IDLH 10 mg/m^3

Reagent 3: **N/A**

Reagent 4: **N/A**

Reagent 5: **N/A**

3. Hazard Identification

Primary Routes of Entry:
Inhalation, ingestion, skin and / or eye contact.

Inhalation:
Sodium hydroxide: burning sensation, cough, with a corrosive action to mucous membrane.

Ingestion:
Sodium hydroxide: abdominal pain, burning sensation; symptoms: sneezing, sore throat or runny nose. Severe pneumonitis is possible.

Skin Contact:
Sodium hydroxide: may cause redness, pain or scarring is possible with greater exposure.

Eye Contact:
Sodium hydroxide: may cause redness, pain or blurred vision, severe deep burns, or blindness.

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Chronic Exposure:
Sodium hydroxide: repeated / prolonged contact with skin can be destructive to tissue.

Medical Conditions Aggravated by Exposure:
Person with pre- existing (sodium hydroxide: skin disorders or eye problems or impaired respiratory function.) may be more susceptible to the effects.

Health Effects:
The health effects from exposures to diluted forms of sodium hydroxide are not well documented. They are expected to be less severe than those for concentrated forms, which are referenced in the descriptions.

4. First Aid Measures

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

Ingestion:
Do not induce vomiting. Get medical attention immediately. Do not give anything by mouth to an unconscious person.

Skin Contact:
Avoid skin contact. If skin contact occurs, remove contaminated clothing and wash exposed skin with water for atleast 15 minutes. 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 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:
Sodium hydroxide : adding water to caustic solution generates large amount of heat.

6. Accidental Release Measures

Steps to be taken in case material is Released or Spilled:
Initiate cleaning up the spill with an inert substance and package all material 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.

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. Replace torn or punctured gloves promptly.

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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 @ 20oC:	N/A	pH :	N/A

Odour and Appearance Information

Reagent 1: N/A

Reagent 2: Clear, Colourless liquid

Reagent 3: N/A.

Reagent 4: N/A.

Reagent 5: N/A.

10. Stability and Reactivity

Incompatibility (Materials to Avoid):
Sodium hydroxide: water, acid, flammable liquids, and metals (e.g. Aluminium, tin , zinc).

Hazardous Decomposition Products:
Sodium hydroxide: reacts with acid and is corrosive in moist air to metals (e.g. Zinc, tin, lead) to form combustible hydrogen gas.

Will Hazardous Polymerization Occur?
Hazardous polymerization will not occur.

Conditions to Avoid / Polymerization: N/A

Is the Product Stable?
Yes, under normal handling and storage conditions.

Conditions to Avoid/stability:
Heat, moisture, incompatibles.

11. Toxicological Information

Toxicity Data:
Sodium hydroxide is considered a severe skin and eye irritant based on irritation data: skin, rabbit 500 mg / 24 hours ; eye, rabbit 50 micrograms/24 hours.

Reproductive effects:
N/A.

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Target organ Effects:
N/A.

Carcinogenicity: No

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

12. Ecological Information

Environmental Fate / Stability:
The sodium hydroxide solution may be hazardous to the environment, special attention should be given to water organisms.

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		
Hazard Class Number : N/A	Packing Group: N/A	UN Number: N/A

15. Regulatory Information

NA.

16. Other Information

NA => NOT APPLICABLE or NO INFORMATION