CAROLINA LIQUID CHEMISTRIES® CORP.
510 West Central Avenue, Unit C Brea, CA 92821
T (714) 722-8910 F (336) 722-8915
Customer Service (800) 471-7272

Safety Data Sheet

Section 1: Identification

1.1. **Product Name:** Creatinine Check Reagent R1, R2
1.2. **Part Number:** CC448
1.3. **Application of the substance:** For In Vitro Diagnostic Use. See package insert for details.

Manufacturer / Supplier

Carolina Liquid Chemistries
510 West Central Avenue, Suite C
Brea, California, 92821, U.S.A.
(877) 722-8910

Emergency Response Number:

Chemtrec (24/7) (800) 262-8200

Section 2: Hazard(s) Identification

2,1 **Hazard Classifications**

2.1.1. Hazardous. Acute toxicity, dermal, oral, eye Irritation. Flammable liquid and vapor.

2.2 **Hazard Labels**



2.3 **Hazard Statements**

2.3.1 **Skin Contact: Warning-** May cause irritation.
2.3.2. **Eye Contact: Warning-** May cause irritation.
2.3.3. **Ingestion: Warning-** May be harmful if ingested.
2.3.4. **Inhalation: Warning-** May cause irritation to mucous membranes and upper respiratory tract.
2.3.5. **Target Organs:** Not Determined

Section 3: Composition/Information on Ingredients

3.1. Creatinine Reagent A
3.1.1. Picric Acid (1.07%)- CAS No. 88-89-1
3.1.2. Nonionic Surfactant (1.0%)- CAS No. 68131-40-8
3.2. Creatinine Reagent B
3.2.1. Contains Sodium Azide < 1% (w/w) (CAS#: 26628-22-8
3.2.2. Sodium Hydroxide (1.25%) CAS No. 7646-69-7

See Section 15 Regulatory Information for additional information on hazard classifications.
See Section 16 for Risk Phrases and WHMIS Classification Description.

Section 4: First-Aid Measures

1. **Ingestion:** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.
2. **Inhalation:** If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.
3. **Skin Contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.
4. **Eye Contact:** If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

Section 5: Fire-Fighting Measures

Flammable Properties: Slight fire hazard when exposed to flame or heat source.
Extinguishing Media: Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards: Although the aqueous solution of this preparation contains small amounts of picric acid (<3%), the container may be detonated in the heat of a fire.
Hazardous Combustion Products: No combustion products posing significant hazards are expected from this product (an aqueous solution).
Product Protective Equipment for Firefighters: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations

Section 6: Accidental Release Measures

Personal Precautions: Use good laboratory procedures; avoid eye and skin contact.
Avoid inhaling, ingesting, and contact with eyes and skin.

Spill and Leak Procedures: Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

Environmental Precautions: Contain spill to prevent migration.

Section 7: Handling and Storage

Handling Precautions: Use good laboratory procedures; avoid eye and skin contact.
Avoid inhaling, ingesting, and contact with eyes and skin.
Recommended Storage Conditions: Keep away from incompatible material (see Section 10).
To maintain efficacy, store according to the instructions in the package labeling.

Section 8: Exposure Controls/Personal Protection

US OSHA: Picric Acid 0.1 mg/m3 TWA; prevent or reduce skin absorption
CAS# 88-89-1
Engineering Controls: No special engineering controls are required. Use with good general ventilation.
Respiratory Protection: Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
Eye Protection: Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection: Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Section 9: Physical and Chemical Properties

Physical State: Liquid
Color: Yellow
Transparency: Transparent
Odor: Odorless
Odor Threshold: Not applicable
pH: Not applicable
Freezing Point: Not available
Boiling Point: Not available
Flash Point: Not applicable
Evaporation Rate: Not available
Flammability (Solid, Gas): Not applicable
Flammable Limits: Not applicable
Vapor Pressure: Not available
Vapor Density: Not available
Specific Gravity (Water=1.0): 1.0061 at 20°C
Solubility: Water Miscible
Organic Not applicable
Viscosity: Not applicable
Coefficient of Water/Oil Distribution: Not available
Autoignition Temperature: Not applicable
Decomposition Temperature: Not available
Percent Volatiles: Not applicable

Section 10: Stability and Reactivity

Stability: Stable under normal temperatures and pressures.
Hazardous Incompatibilities: Strong bases
Strong oxidizers
Hazardous Decomposition Products: No decomposition products posing significant hazards would be expected from this product (an aqueous solution).
Conditions to Avoid: Avoid contact with incompatible materials.

Section 11: Toxicological Information

Ingredients:
Picric Acid Oral LD50 Rat 200 mg/kg
CAS# 88-89-1
Primary Routes of Exposure
Eye contact, ingestion, inhalation, and skin contact.
Potential Effects of Acute Exposure
Exposure to dilute picric acid solutions may result in irritation or burns to the skin, eye and mucous membranes. Systemic poisoning may result from skin absorption, inhalation of mists and ingestion. Symptoms of poisoning may include headache, dizziness and abdominal pain with nausea, vomiting and diarrhea. Exposure to large amounts may result in severe poisoning with damage to red blood cells, liver and kidneys, convulsions, coma and death. Sensitization dermatitis may result from skin contact. Damage to the cornea may result from eye contact.
Potential Effects of Chronic Exposure
Repeated or prolonged eye and skin contact with picric acid may cause conjunctivitis and dermatitis, respectively. Inhalation may cause yellow stains on the teeth, itching, and rashes of the skin. Repeated absorption through skin, inhalation, and ingestion may damage the

liver and kidneys which may result in hepatitis and blood in urine, respectively.
Effects are similar to those for acute exposure.

Symptoms of Overexposure

Symptoms may include redness and itching or burning of the skin and eyes, and irritation or burning sensation of the upper respiratory tract with coughing and difficulty in breathing..

Carcinogenicity

Exposure to this product may aggravate individuals with pre-existing blood, kidney, and liver or respiratory system conditions.

Irritation/Sensitization: May cause sensitization by inhalation and skin contact.
Carcinogenicity: No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
Mutagenicity: None identified.
Reproductive Toxicity: None identified
Other Effects: None identified.

Section 12: Ecological Information

Ecotoxicity: No information available
Fresh Water Species
Water Flea
Fresh Water Algae
Biodegradability: No information available
Bioaccumulation: No information available
Mobility: No information available
Other Adverse Effects: No information available

Section 13: Disposal Considerations

Waste Disposal: Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact appropriate authorities for information.

Section 14: Transport Information

Transportation of this product is not regulated under IATA, ICAO, IMDG, US DOT, European ADR, or Canadian TDG.

Section 15: Regulatory Information

The state of California Safe Drinking Water and Toxic Enforcement Act of 1986 (commonly known as Proposition 65) requires the following warning: This product contains a chemical known to the State of California to cause cancer.

Section 16: Other Information

This SDS complies with EC Regulation 1907/2006 (REACH)
This is the first version of this SDS.

**Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).*