

Section 1: Product and Company Identification

Product Name **Urine Creatinine Detection Kit**
 Catalog Number **SKT-200**
 Company StressMarq Biosciences Inc.
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Section 2: Chemical Component Information

List of Components Plates (SKC-200A)
 Creatinine Standard (SKC-200B)
 Creatinine Reagent (SKC-200C)
 Plate Sealer (SKC-200D)

Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>Kit Component</u>	<u>Percent</u>	<u>SARA 313</u>
Picric Acid	88-89-1	Creatinine Reagent	<0.2%	No
Sodium Hydroxide	1310-73-2	Creatinine Reagent	<1.0%	No
Methanol	67-56-1	Creatinine Reagent	<1.0%	No
Hydrochloric Acid	7647-01-0	Creatinine Standard	<1.0%	No
ProClin	55965-84-9	Creatinine Standard	<1.0%	No

Section 3: Health Hazards

Emergency Overview It is recommended that personnel wear safety goggles, gloves and protective clothing at all times. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical components of this kit and ensure prompt removal from skin, eye, and clothing.

Picric Acid Toxic. Explosive when dry. Forms very sensitive explosive metallic compounds. Toxic by inhalation, in contact with skin and if swallowed. May cause sensitization by skin contact. Readily absorbed through skin. Target organ(s): Blood, kidneys.

Hazard statement(s):

H228 Flammable solid.

H302 Harmful if swallowed.

H311 + H331 Toxic in contact with skin or if inhaled.

Precautionary statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable

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Sodium Hydroxide	<p>for breathing. Call a POISON CENTER/ doctor.</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p> <p>Hazard statement(s):</p> <p>H314 - Causes severe skin burns and eye damage.</p> <p>H402 - Harmful to aquatic life</p> <p>Precautionary statement(s):</p> <p>P260 - Do not breathe dust, vapours.</p> <p>P264 - Wash exposed skin thoroughly after handling.</p> <p>P273 - Avoid release to the environment.</p> <p>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</p> <p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 - Immediately call a POISON CENTER/doctor</p>
Hydrochloric Acid	<p>Harmful if inhaled, absorbed through skin or swallowed. Irritating to eyes, respiratory system and skin.</p> <p>Hazard Statement(s):</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H335 May cause respiratory irritation.</p> <p>Precautionary statement(s):</p> <p>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>

Section 4: First Aid Measures

	Picric Acid	Sodium Hydroxide	Methanol	Hydrochloric Acid	ProClin
Inhalation	If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.	If inhaled, remove to fresh air. Seek medical attention if any respiratory symptoms develop.	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.	POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.	If inhaled, remove to fresh air.

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Skin Contact	Rinse with copious amounts of water and wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes. If irritation or discomfort develops seek medical attention.	Rinse with copious amounts of water and wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes. If irritation or discomfort develops seek medical attention.	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention.
Eye Contact	Rinse eyes with running water, checking for and removing contact lenses. Continue for at least 15 minutes. Seek medical attention.	Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents.	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and seek immediate medical attention. Continue rinsing during transport to hospital. Cold water may be used.
Ingestion	If swallowed, wash out mouth with water if person is conscious.	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service.	Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.	If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water and seek medical attention.

Section 5: Fire Fighting Measures

Flash Point	N/A
Explosion Limits	Sensitivity to mechanical impact; may be shock-sensitive if dry.
Auto-ignition Temp	N/A
Flammability	N/A
Extinguishing Media	Suitable: Carbon Dioxide, dry chemical powder, or appropriate foam.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fires conditions.

Section 6: Accidental Release Measures

Cleanup Procedures	Wear appropriate protective clothing, Contain spill to prevent migration. Keep spilled materials wet with water. Do not allow to dry! Absorb on sand or vermiculite and place in closed container(s) for disposal. Ventilate area and wash spill site after pickup is complete.
Waste Disposal	Dispose of in accordance with federal, state, and local regulations.

Section 7: Handling and Storage

Handling	Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.
Storage	Store according to the package insert instructions.

Section 8: Exposure Controls and Personal Protection

Engineering Controls	No special engineering controls are required when working with this kit. Use with adequate ventilation.
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves and a lab coat should be worn to prevent skin contact.

Section 9: Physical and Chemical Properties

Characteristic	Picric Acid <0.2%	NaOH	Methanol	Hydrochloric Acid	Proclin
Appearance	Clear, yellow liquid	Clear, Colorless liquid	Clear, Colorless Liquid	Clear, colorless liquid	Clear, Colorless liquid
Odor	None	Odorless	Odorless	Pungent	Odorless
Boiling Point	N/A	1388°C	64.7°C	100°C	189°C
Melting Point	N/A	318.4°C	-98°C	0°C	-40°C
Flash Point	N/A	N/A	12°C	N/A	118°C
Ignition temperature	N/A	N/A	N/A	N/A	N/A

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Density	N/A	N/A	0.79	N/A	N/A
Vapor Pressure	N/A	<2.4 kPa	128 hPa	Essentially the same as water	N/A
Solubility in Water	Complete	Soluble	Miscible at 20°C	Complete	Soluble
pH	N/A	13	N/A	0.03	4.1

Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the kit if stored as directed.
Conditions to Avoid	Drying, incompatibles.
Incompatibles	Strong oxidizing agents, strong bases, reducing agents, heavy metals, heavy metal salts, ammonia.
Decomposition	Thermal decomposition may release toxic fumes.

Section 11: Toxicological Information

Route of Exposure

Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

No data is available.

Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14: Transport Information

U.S. and Canadian Transportation; DOT

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	N/A
Hazard Label	Class 9

International Air Transportation (IATA)

Proper Shipping Name	Chemical Kits
UN Identification Number	3316
Class and Description	9, Miscellaneous
Packing Group	III
Hazard Label	Class 9

Section 15: Regulatory Information

Product related information

The product is not subject to classification according to the sources of literature known to us.
Observe general safety regulations when handling chemicals.

Safety Statements

Keep container tightly closed. Keep away from sources of ignition.

Risk Statements

Explosive when dry. Forms very sensitive explosive metallic compounds.

U.S. Regulatory Information

Sara Listed: Yes, the picric acid (CAS # 88-89-1) contained in this product is subject to SARA 313 Reporting requirements.

Section 16: Other Information

Disclaimer: For Research Use Only. Not for diagnostic, therapeutic, or other uses.

Further Information: The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. StressMarq Biosciences Inc. shall not be held liable for any damage resulting from use or handling of this product.

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