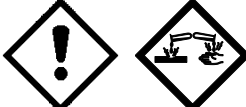


SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

| | |
|-----------------------------------|--|
| Product name | Creatinine Reagent |
| Catalog number | SA1012 and RX1012 |
| Product use | For the quantitative determination of creatinine concentration in serum, lithium heparin plasma and urine. |
| Company name | Alfa Wassermann Diagnostic Technologies, LLC |
| Company address | 4 Henderson Drive West Caldwell, New Jersey 07006 |
| Country | USA |
| Telephone number | 1-800-220-4488 |
| Fax number | 1-973-276-0383 |
| Email | info@alfawassermannus.com |
| Website | www.AWDT.us |
| Emergency telephone number | Toll Free: 1-866-419-ALFA (2532) |

SECTION 2 – HAZARDS IDENTIFICATION

| | |
|---------------------------------|--|
| Hazard classification | Sodium Hydroxide Reagent: This product is considered hazardous according to OSHA 29 CFR 1910.1200. Picric Acid Reagent: This product is not hazardous according to OSHA 29 CFR 1910.1200. |
| GHS label elements |  |
| Signal word | Sodium Hydroxide Reagent: Warning and corrosive. |
| Potential health effects | |
| Routes of exposure | Inhalation. Ingestion. Skin contact. Eye contact. |
| Other hazards | |
| Eyes | May cause eye irritation. |
| Skin | May cause skin irritation |
| Inhalation | In high concentrations, mists/vapors may irritate throat and respiratory system and cause coughing. |
| Ingestion | May cause discomfort if swallowed and can burn the mouth, throat and stomach. |

| SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS | | |
|--|-------------------|-----------|
| Hazardous Ingredients | CAS Number | % |
| Sodium Hydroxide Reagent Sodium Hydroxide | 1310-73-2 | 0.5 - 1.0 |
| Picric Acid Reagent Picric Acid | 88-89-1 | 0.1 - 1 |

| SECTION 4 – FIRST AID MEASURES | |
|---------------------------------------|--|
| Skin contact | Remove contaminated clothing and wash with soap and plenty of water. Seek medical attention. |
| Eye contact | Immediately flush with plenty of water or eye wash solution for up to ten minutes. Seek medical attention. |
| Inhalation | Remove victim to fresh air. Seek medical attention. |
| Ingestion | Wash out mouth thoroughly with water. Seek medical attention. |

| SECTION 5 – FIRE-FIGHTING MEASURES | |
|---|---|
| Flammable | No |
| Hazardous combustion products | Fire will generate toxic and irritating gases. |
| Extinguishing media | Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire. |
| Protection of firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Specific hazards arising from the chemical | Sodium Hydroxide Reagent: During fire, gases hazardous to health may be formed. Picric Acid Reagent: Explosive when dry. |
| Firefighting instructions | Use standard firefighting procedures and consider the hazards of other involved materials. |

| SECTION 6 – ACCIDENTAL RELEASE MEASURES | |
|--|---|
| Personal precautions | Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing gloves appropriate protective clothing. Ensure adequate ventilation and treat material as you would hazardous materials. |
| Environmental precautions | Do not allow to enter drains, sewers or watercourses. |
| Methods for containment and cleaning up | Absorb spill with vermiculite or other inert material. Place in suitable container for prompt disposal. Label the container as potentially hazardous. Spill areas can be decontaminated with 0.5% sodium hypochlorite, e.g., a fresh 1:10 dilution of common household bleach. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations. |

SECTION 7 – HANDLING AND STORAGE

Handling Wear safety glasses, disposable gloves and protective clothing. Wash thoroughly after handling.
 Handle and open container with care.

Storage Store at 18-26°C.
Picric Acid Reagent: Do not allow material to completely dry.

SECTION 8 – EXPOSURE CONTROL/ PERSONAL PROTECTION**Exposure limits****Sodium Hydroxide Reagent**

| Component | Type | Value |
|----------------------------------|--------------------|--------------------|
| Sodium Hydroxide (CAS 1310-73-2) | ACGIH TLV: Ceiling | 2mg/m ³ |
| | OSHA: PEL | 2mg/m ³ |

Picric Acid Reagent

| Component | Type | Value |
|---------------------------|----------------|-----------------------|
| Picric Acid (CAS 88-89-1) | ACGIH TLV: TWA | 0.1 mg/m ³ |
| | OSHA: PEL | 0.1 mg/m ³ |

Personal protective equipment Gloves Respirator Eye Footwear Clothing Other

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| Properties | Sodium Hydroxide Reagent | Picric Acid Reagent |
|-------------------------------|---------------------------------|----------------------------|
| Physical state | Liquid. | Liquid. |
| Color | Colorless. | Yellow. |
| Odor | Not available. | Not available. |
| Odor threshold | Not available. | Not available. |
| pH | 13 @ 25°C. | 2. |
| Vapor pressure | Not available. | Not available. |
| Vapor density | Not available. | Not available. |
| Boiling point | Not available. | Not available. |
| Melting point/ Freezing point | Not available. | Not available. |
| Solubility in water | Soluble. | Soluble. |
| Specific gravity | 1.015. | Not available. |

SECTION 10 – STABILITY AND REACTIVITY

| | | |
|---|--|---|
| Chemical stability | Sodium Hydroxide Reagent Stable under normal conditions. | Picric Acid Reagent Stable under normal conditions. When dry, Picric acid can explode when subject to shock, friction or heat. Picric acid reacts with metals, concrete, ammonia and other bases forming unstable, explosion sensitive salts. |
| Incompatible materials | Strong oxidizing agents. | Bases. Metals. Reducing agents. |
| Hazardous decomposition products | By heating and fire, irritating vapors/gases may be formed. | By heating and fire, irritating vapors/gases may be formed. |
| Conditions to avoid | Heat, sparks, flames, elevated temperatures. | Do not evaporate to dryness. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. | Hazardous polymerization does not occur. |

SECTION 11 – TOXICOLOGICAL INFORMATION

| | | |
|----------------------------|---|--|
| Toxicological data | | |
| Picric Acid Reagent | | |
| Component | Test Results | |
| Picric Acid (CAS 88-89-1) | Acute Oral LD50 Rat: 200 mg/kg | |
| Sensitization | Sodium Hydroxide Reagent Not classified. | Picric Acid Reagent Not expected; however, a component of this material has been reported to cause allergic skin reactions in sensitive individuals. |
| Acute effects | Causes skin and eye irritation. | May cause discomfort if swallowed. |
| Local effects | In high concentrations, vapors may irritate throat and respiratory system and cause coughing. | Ingestion may cause irritation and malaise. |
| Chronic effects | Prolonged skin contact may defat the skin and produce dermatitis. | No data available. |
| Carcinogenicity | Not classified. | Not classified. |

SECTION 12 – ECOLOGICAL INFORMATION**Ecotoxicological data****Sodium Hydroxide Reagent****Components**

Sodium Hydroxide (CAS 1310-73-2)

Test ResultsCrustacea EC50 Water flea (*Ceriodaphnia dubia*) 34.59 - 47.13 mg/l, 48 hoursFish LC50 Western mosquitofish (*Gambusia affinis*) 125 mg/l, 96 hours**Picric Acid Reagent****Components**

Picric Acid (CAS 88-89-1)

Crustacea EC50 Water flea (*Daphnia magna*) 80 - 102 mg/l, 48 hoursFish LC50 Sheepshead minnow (*Cyprinodon variegatus*) 100 - 170 mg/l, 96 hours**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste disposal**

Contaminated instruments and surfaces should be disinfected in accordance with your employer's chemical-specific and universal/ standard precautions.

Dispose in accordance with all applicable regulations.

SECTION 14 – TRANSPORT INFORMATION**DOT/IATA/IMDG/TDG****Sodium Hydroxide Reagent**

UN 1824

Sodium hydroxide solution

Picric Acid Reagent

Not regulated.

SECTION 15 – REGULATORY INFORMATION**US federal regulations**

Sodium Hydroxide Reagent: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Picric Acid Reagent: This product is not hazardous as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Hazard symbol

Sodium Hydroxide Reagent: Warning and corrosive.

Warnings

Sodium Hydroxide Reagent: Corrosive

SECTION 16 – OTHER INFORMATION

| | |
|---|---|
| Supplier's notes | This safety data sheet has been compiled, controlled and approved in accordance with the regulations in force. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise the Safety Data Sheet periodically as new information becomes available. |
| Recommended restrictions on use | For in vitro diagnostic use only. |
| Disclaimer of expressed and implied warranties | Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representation as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes. |
| Preparation information | P/N 701197-27 Rev D 7/14 |

END OF SDS