



Teco Diagnostics

Document	QL801-073
Revision	B
Prepared by	Jenifer Ohta
Approved by	Steve Partono
Issue date	07/01/2015

[SDS]

Urine Reagent Strips 10 Parameters (URS-10)

1268 N. Lakeview Ave. Anaheim, CA 92807 Phone: (714) 463-1111 Fax: (714) 463-1169 www.tecodiag.com

Section 1 – Product and Company Information

Product Name	Urine Reagent Strips 10	Emergency Telephone No.
Catalog Numbers	URS-10	CHEMTREC (800) 424-9300
Product Type	Urine Reagent Strips	International CHEMTREC (703) 527-3887
Company Name	Teco Diagnostics	Company Telephone No.
Street Address	1268 N. Lakeview Avenue	(800) 222-9880 or (714) 463-1111 Monday - Friday 8:00-4:30 PST
City, State, Zip Code, Country	Anaheim, CA 92807 USA	Fax No. (714) 463-1169

Recommended Use: For *In Vitro* Diagnostic Use Only

Section 2 – Hazard(s) Identification

Classification: This material is not classified as hazardous according to the OSHA Hazard Communication Standard (21 CFR 1910.1200).

Emergency Overview:

When the recommended instructions for use are followed, the product is not expected to produce significant adverse health effects.

There are no known significant effects or critical hazards; however, appropriate safety precautions should still be taken.

Avoid contact with eyes and skin.

Acute health effects: No known significant effects or critical hazards have been identified.

Chronic health effects: No known significant effects or critical hazards have been identified.

For additional information on toxicity, please refer to section 11.

Section 3 – Composition/Information on Ingredients

Component	Type	Chemical Concentration or % (Based on dried weight at time of impregnation)	CAS#
Bilirubin Test:	Mixture	0.4% w/w 2,4-dichloroaniline diazonium salt with buffer and non-reactive ingredients	554-00-7
Blood Test:	Mixture	6.6% w/w cumene hydroperoxide, 4.0% w/w 3,3',5,5'-tetramethylbenzidine, with buffer and non-reactive ingredients	80-15-9, 54827-17-7
Glucose Test:	Mixture	16.3% w/w glucose oxidase (<i>Aspergillus niger</i> , 1.3IU), 0.6% w/w peroxidase (horseradish, 3300 IU), 7.0% w/w potassium iodide, with buffer and non-reactive ingredients	9001-37-0, 9003-99-0, 7684-11-0
Ketone Test:	Mixture	7.7% w/w sodium nitroprusside with buffer and non-reactive ingredients	13755-38-9
Leukocyte Test:	Mixture	0.4% w/w indoxyl ester derivative, 0.2% w/w diazonium salt, with buffer and non-reactive ingredients	99740-00-8, 887-76-3
Nitrite Test:	Mixture	1.4% w/w <i>p</i> -arsanilic acid	98-50-0
pH Test:	Mixture	0.2% w/w methyl red 2.8% w/w bromothymol blue sodium salt	845-10-3, 34722-90-2
Protein Test:	Mixture	0.3% w/w tetrabromophenol blue	108321-10-4
Specific Gravity Test:	Mixture	2.8% w/w bromothymol blue sodium salt, 69.0% poly (methyl vinyl ether/maleic anhydride) 28.2% sodium hydroxide	34722-90-2, 9011-16-9, 1310-73-2
Urobilinogen Test:	Mixture	2.9% w/w <i>p</i> -diethylaminobenzaldehyde	120-21-8

Section 4 – First Aid Measures

Ingestion

If victim is conscious and alert, wash out their mouth with water, and then give 2 to 4 cups of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation

Move exposed person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Skin Contact

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.



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Section 5- Fire and Explosive Hazard Data

Extinguishing Media

Suitable: Use water spray, foam, or dry chemical.

Unsuitable: None known

Specific Hazards: No known hazardous combustion products.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and appropriate protective clothing for firefighting.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear proper personal protective equipment (PPE) as indicated in section 8. Exercise appropriate precautions to avoid contact with skin or eyes and prevent inhalation.

Methods and materials for containment and cleaning up

Vacuum or sweep material and place into a suitable waste container. Dispose of in accordance with federal, state, and local regulations.

Section 7 – Handling and Storage

Handling

Wear appropriate personal protective equipment (PPE) as indicated in section 8.

Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.

Storage

Store at 15-30°C in the original container and protect from sunlight. Keep container closed when not in use.

Section 8 – Exposure Controls / PPE

Components with workplace control parameters

The product contains no components with occupational exposure limit values.

Engineering Controls

No special ventilation requirements. Good general ventilation is sufficient.

Personal Protective Equipment

Respiratory Protection: Respiratory protective equipment is not required where adequately ventilated.

Hand Protection: Wear chemical-resistant, impervious gloves

Eye Protection: Safety glasses with side shields recommended.

Protective Clothing: Wear a lab coat.

Other protective equipment: Ensure the eyewash station and/or safety shower/wash is located near the work area.

General Hygiene Measures

Handle in accordance with good industrial hygiene practice. After handling the product, remove gloves using proper glove removal technique (without touching outer surface of glove), and dispose gloves according to applicable laws and good laboratory practices. Wash hands thoroughly. Also wash hands before eating, smoking, using the lavatory, and at end of the work period.

Section 9 – Physical and Chemical Properties

Appearance	10 small, multicolored reagent test pads on a white plastic strip
Odor	N/A
Odor threshold	N/A
pH	N/A
Melting point / freezing point	N/A
Initial boiling point and boiling range	N/A
Flash point	N/A
Evaporation rate	N/A
Flammability	Not flammable
Upper/lower flammability or explosion limits	N/A
Vapor pressure	N/A
Vapor density	N/A
Relative density	N/A
Solubility	Insoluble
Partition coefficient: n-octanol/water	N/A
Auto-ignition Temperature	N/A
Decomposition Temperature	N/A
Viscosity	N/A

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Section 10 – Stability and Reactivity

Reactivity	Reacts with urine and possibly with other bodily fluids
Chemical stability	Stable under recommended storage conditions as indicated in section 7.
Possibility of hazardous reactions	No information available
Conditions to avoid	Avoid high temperature, high humidity conditions
Incompatible materials	No information available
Hazardous decomposition products	No information available

Section 11- Toxicological Information

Route of Entry/Exposure	Skin contact, eye contact
Effects of acute exposure	
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Ingestion	May be harmful if ingested.
Inhalation	May cause irritation to mucous membranes and upper respiratory tract.
Effects of chronic exposure	No information available

Toxicity:

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Bilirubin Test:	2,4-Dichloroaniline	LD50 Oral –mouse 400 mg/kg	No information available	RTECS: BX2600000
Blood Test:	Cumene hydroperoxide, 3, 3', 5, 5'-tetramethylbenzidine	LD50 Oral –rat 382 mg/kg, LD50 Oral –other >316 mg/kg	No information available	RTECS: MX2450000, RTECS: DV2300000
Glucose Test:	Glucose oxidase, Peroxidase, Potassium iodide	LD50 Intraperitoneal-mouse 3 mg/kg, No information available, No information available	No information available	RTECS: RQ8452000, RTECS: Not available, RTECS: TT2975000
Ketone Test:	Sodium nitroprusside	LD50 Oral –rat 99 mg/kg	No information available	RTECS: LJ8925000
Leukocyte Test:	Indoxyl ester derivative, Diazonium salt	No information available, No information available	No information available	RTECS: Not available, RTECS: Not available
Nitrite Test:	<i>p</i> -Arsanilic acid	LD50 Oral –rat 1000 mg/kg	No information available	RTECS: CF7875000
pH Test:	Methyl red, Bromothymol blue sodium salt	No information available, No information available	No information available	RTECS: Not available, RTECS: Not available
Protein Test:	Tetrabromophenol blue	No information available	No information available	RTECS: Not available
Specific Gravity Test:	Bromothymol blue sodium salt, Poly (methyl vinyl ether/maleic anhydride), sodium hydroxide	No information available, LD50 Oral –rat >5000 mg/kg, LD50 Dermal –rabbit 1350 mg/kg	No information available	RTECS: Not available, RTECS: Not available, RTECS: WB4900000
Urobilinogen Test:	<i>p</i> -diethylaminobenzaldehyde	LD50 Oral –rat 6400 mg/kg, LD50 Dermal –rabbit >400 mg/kg	No information available	RTECS: CU5612850

Carcinogenicity

IARC	Arsanilic acid: Group 1 Carcinogenic to humans
ACGIH	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	Arsanilic acid: Known to be human carcinogen
OSHA	Arsanilic acid: OSHA specifically regulated carcinogen

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



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Section 12 – Ecological Information

Ecotoxicity	No information available	Mobility in soil	No information available
Persistence and degradability	No information available	Other adverse effects	No information available
Bio-accumulative potential	No information available	Water hazard class	No information available

Section 13 – Disposal Considerations

Waste residues and methods of disposal

This product has to be disposed in accordance with applicable regional, national and local laws and regulations. Surplus and non-recyclable components should be taken to a licensed waste disposal contractor for disposal.

Contaminated Packaging

Waste packaging should be recycled; however, since empty containers may retain some product residues, they should be taken to an approved waste handling site or given to a licensed waste disposal contractor for recycling or disposal, if recycling is not possible.

Section 14 – Transport Information

UN Number	None. Not regulated.
UN Proper shipping name	None. Not regulated.
Transport hazard class	Not classified as hazardous. Not regulated.
Packing group	Not applicable
Environmental hazard	No information available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
DOT (USA)	Not dangerous goods. Non-hazardous for transport.
IMDG	Not dangerous goods. Non-hazardous for maritime transport.
IATA	Not dangerous goods. Non-hazardous for air transport.
Special precautions	None

Section 15 – Regulatory Information

United States

HCS Classification Not regulated

U.S Federal Regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory TSCA 8(b): Not determined

SARA 302: No components are subject to the reporting requirements of SARA Title III, section 302

SARA 304 Extremely Hazardous Substances Reportable Quantity: The product does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards Identification: Not regulated

Clean Water Act (CWA) 307: This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.

Clean Water Act (CWA) 311: This product does not contain any hazardous substances listed under the U.S. Clean Water Act section 311.

Clean Air Act (CAA) 112 accidental release prevention: No products were found

U.S. State Regulations	Component	CAS No.
Massachusetts Right to Know:	Cumene hydroperoxide, Sodium hydroxide	80-15-9, 1310-73-2
Pennsylvania Right to Know:	2,4-Dichloroaniline, Cumene hydroperoxide, 3, 3', 5, 5'-tetramethylbenzidine, Sodium nitroferricyanide(III) dihydrate [Sodium nitroprusside], 4,4'-Azo-3-hydroxynaphthalene-1-sulphonate [Diazonium salt], Arsanilic acid, Sodium 2-(p-(dimethylamino)phenylazo)benzoate [Methyl red], Bromothymol Blue sodium salt, Tetrabromophenol Blue sodium salt, Sodium hydroxide, 4-Diethylaminobenzaldehyde	554-00-7, 80-15-9, 54824-17-7, 13755-38-9, 887-76-3, 98-50-0, 845-10-3, 34722-90-2, 108321-10-4, 1310-73-2, 120-21-8



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Section 15 – Regulatory Information (continued)

U.S. State Regulations	Component	CAS No.
New Jersey Right to Know:	2,4-Dichloroaniline, Cumene hydroperoxide, 3, 3', 5, 5'-tetramethylbenzidine, Sodium nitroferricyanide(III) dihydrate [Sodium nitroprusside], 4,4'-Azo-3-hydroxynaphthalene-1-sulphonate [Diazonium salt], Arsanilic acid, Sodium 2-(p-(dimethylamino)phenylazo)benzoate [Methyl red], Bromothymol Blue sodium salt, Tetrabromophenol Blue sodium salt, Sodium hydroxide, 4-Diethylaminobenzaldehyde	554-00-7, 80-15-9, 54824-17-7, 13755-38-9, 887-76-3, 98-50-0, 845-10-3, 34722-90-2, 108321-10-4, 1310-73-2, 120-21-8
California Prop. 65	Warning! This product contains a chemical known to the State of California to cause cancer. Arsanilic acid CAS No. 98-50-0	
Canadian WHMIS: Exempt		
Note: The regulatory information above is based on the information available for the pure product ingredients, not the finished product.		

Section 16 – Other Information

This product is labeled in accordance with CFR21 (Food and Drugs), Section 809.10.
The information contained herein has been compiled from data presented in various technical sources believed to be accurate. We make no warranties, express or implied, and assume no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary safety precautions.
N/A = Not Applicable or Not Available
Date of SDS Preparation: 07/01/2015