

## Material Safety Data Sheet

### Urine Reagent Strips

**REF** Applicable for: URS-1B/G/K/P, URS-2K/P, URS-3, URS-4B/S, URS-5K/U, URS-6(L), URS-7, URS-8, URS-9, URS-10

#### SECTION I. GENERAL INFORMATION

<b>Product Name</b>	Urine Reagent Strips Single/Multi-Parameters
<b>Catalog Number</b>	URS-1B/G/K/P, URS-2K/P, URS-3, URS-4B/S, URS-5K/U, URS-6(L), URS-7, URS-8, URS-9, URS-10
<b>Product Type</b>	Urine Reagent Strips
<b>Company Name</b>	Diagnostic Automation/Cortez Diagnostics Inc.
<b>Street Address</b>	21250 Califa St, Suite 102 & 116
<b>City, State, Zip code, Country</b>	Woodland Hills, CA 91367, USA
<b>Contact Info</b>	(818)591-3030
<b>Recommended Use:</b>	For <i>In Vitro</i> Diagnostic Use only

#### II. HAZARD IDENTIFICATIONS

<b>Classification:</b> This material is not classified as hazardous according to the OSHA Hazard Communication Standard (21 CFR 1910.1200).
<b>Emergency Overview:</b> 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.
<b>Acute health effects:</b> No known significant effects or critical hazards have been identified.
<b>Chronic health effects:</b> No known significant effects or critical hazards have been identified.
For additional information on toxicity, please refer to section XI.

#### III. COMPOSITION/INFORMATION ON INGREDIENTS

Applicable with correspondence to:

URS-1B/G/K/P, URS-2K/P, URS-3, URS-4B/S, URS-5K/U, URS-6(L), URS-7, URS-8, URS-9, URS-10

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> , 1.3 IU), 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
Nitrile 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

#### IV: FIRST AID MEASURES

##### **Ingestion**

If victim is conscious and alert, wash out their mouth with water, and then give 2-4 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.

#### V: FIRE AND EXPLOSIVE HAZARD DATA

##### **Extinguishing Media**

Suitable: Use water spray, foam, or dry chemical. None are known to be unsuitable.

**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.

#### VI: ACCIDENTAL RELEASE MEASURES

##### **Personal precautions, protective equipment and emergency procedures**

Wear proper personal protective equipment (PPE) as indicated in section VIII. 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

#### VII. HANDLING AND STORAGE

##### **Handling**

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

VIII. EXPOSURE CONTROLS / PPE

<b>Components with workplace control parameters</b> The product contains no components with occupational exposure limit values
<b>Engineering Controls</b> No special ventilation requirements. Good general ventilation is sufficient.
<b>Personal Protective Equipment</b> 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.
<b>General Hygiene Measures</b> 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.

IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	1 to 10 small, mono/multicolored reagent test pad(s) on a white plastic strip
<b>Odor</b>	N/A
<b>Odor threshold</b>	N/A
<b>pH</b>	N/A
<b>Melting Point / freezing point</b>	N/A
<b>Initial boiling point and boiling range</b>	N/A
<b>Flash point</b>	N/A
<b>Evaporation rate</b>	N/A
<b>Flammability</b>	Not flammable
<b>Upper/lower flammability or explosion limits</b>	N/A
<b>Vapor pressure</b>	N/A
<b>Vapor density</b>	N/A
<b>Relative density</b>	N/A
<b>Solubility</b>	Insoluble
<b>Partition coefficient: n-octanol/water</b>	N/A
<b>Auto-ignition Temperature</b>	N/A
<b>Decomposition Temperature</b>	N/A
<b>Viscosity</b>	N/A

X. STABILITY AND REACTIVITY

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

XI. TOXICOLOGICAL INFORMATION

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

**Toxicity:**

Applicable with correspondence to:

URS-1B/G/K/P, URS-2K/P, URS-3, URS-4B/S, URS-5K/U, URS-6(L), URS-7, URS-8, URS-9, URS-10

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Bilirubin Test	2,4-Dichloroaniline	LD50 Oral: mouse 400mg/kg	N/A	RTECS: BX2600000
Blood Test	Cumene hydroperoxide, 3,3',5,5'-tetramethylbenzidine	LD50 Oral: rat 283mg/kg LD50 Oral: other >316mg/kg	N/A	RTECS: MX2450000 RTECS: DV2300000
Glucose Test	Glucose oxidase, Peroxidase, Potassium iodide	LD50 Intraperitoneal: mouse 3mg/kg No information available No information available	N/A	RTECS: RQ8452000 RTECS: Not Available RTECS: TT2975000
Ketone Test	Sodium nitroprusside	LD50 Oral: rat 99mg/kg	N/A	RTECS: LJ8925000
Leukocyte Test	Indoxyl ester derivative, Diazonium salt	No information available No information available	N/A	RTECS: Not Available RTECS: Not Available
Nitrile Test	<i>p</i> -Arsanilic acid	LD50 Oral: rat 1000mg/kg	N/A	RTECS: CF7875000
pH Test	Methyl red, Bromothymol blue sodium salt	No information available No information available	N/A	RTECS: Not available RTECS: Not available
Protein Test	Tetrabromophenol Blue	No information available	N/A	RTECS: Not Available
Specific Gravity Test	Bromothymol blue sodium salt, Poly (methyl vinyl ether/maleic anhydride), Sodium hydroxide	No information available LD50 Oral: rat >5000mg/kg LD50 Dermal: rabbit 1350mg/kg	N/A	RTECS: Not available RTECS: Not available RTECS: WB4900000
Urobilinogen Test	<i>p</i> -diethylaminobenzaldehyde	LD50 Oral: rat 6400mg/kg LD50 Dermal: rabbit >400mg/kg	N/A	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.

**XII. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Not available	<b>Mobility in soil</b>	Not available
<b>Persistence and degradability</b>	Not available	<b>Other adverse effects</b>	Not available
<b>Bio-accumulative potential</b>	Not available	<b>Water hazard class</b>	Not available

**XIII. DISPOSAL CONSIDERATIONS**

<b>Waste residues and methods of disposal</b>
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.
<b>Contaminated Packaging</b>
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.

**XIV. TRANSPORT INFORMATION**

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

XV. REGULATORY INFORMATION

**United States:**

<b>HCS Classification</b>	Not regulated	
<b>U.S. Federal Regulations</b>		
<p><b>TSCA 8(a) CDR Exempt/Partial exemption:</b> Not determined</p> <p><b>United States inventory TSCA 8(b):</b> Not determined</p> <p><b>SARA 302:</b> No components are subject to the reporting requirements of SARA Title III, section 302</p> <p><b>SARA 304 Extremely Hazardous Substances Reportable Quantity:</b> The product does not contain any components with a section 304 EHS RQ.</p> <p><b>SARA 311/312 Hazards Identification:</b> Not regulated.</p> <p><b>Clean Water Act (CWA) 307:</b> This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.</p> <p><b>Clean Water Act (CWA) 311:</b> This product does not contain any hazardous substances listed under the U.S. Clean Water Act section 311.</p> <p><b>Clean Air Act (CAA) 112 accidental release prevention:</b> No products were found.</p>		
<b>U.S. State Regulations</b>	<u>Component</u>	<u>CAS No.</u>
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) dehydrate [Sodium nitroprusside], 4, 4'-azo-3-hydroxynaphthalene-1-sulfonate [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
New Jersey Right to Know:	2,4-Dichloroaniline, Cumene hydroperoxide, 3, 3', 5, 5'-tetramethylbenzidine, Sodium nitroferricyanide(III) dehydrate [Sodium nitroprusside], 4, 4'-azo-3-hydroxynaphthalene-1-sulfonate [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	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.

XVI. 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

<b>Date Adopted</b>	<b>2017-Jan-11</b>
<b>REF</b> URS-1B/G/K/P, URS-2K/P, URS-3, URS-4B/S, URS-5K/U, URS-6(L), URS-7, URS-8, URS-9, URS-10	<b>Urine Reagent Strips (Urobilinogen/ Blood/ Ketone/ Glucose/ Protein/ pH/ Bilirubin/ Nitrite/ SG/ Leukocytes)</b>
	<b>Revision Date: 2015-Jul-1</b>



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