

**SAFETY DATA SHEET**Doc. ID: B71521 Rev. AA  
Issued (year/month/day) 2015/05/22

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**Section 1 Identification of the Substance/mixture and of the Company/undertaking**

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**1.1 Product Identifier****Product Name** MicroScan Rapid Indole Reagent**Part Number** 10444532, B1015-17**1.2 Relevant identified uses of the substance or mixture and uses advised against****Product Use** For In Vitro Diagnostic Use. See product literature for details.**1.3 Details of the supplier of the safety data sheet****Manufacturer**Beckman Coulter, Inc.  
250 S. Kraemer Blvd  
Brea, CA 92821, U.S.A.  
Tel: 800-854-3633**EC REP Address**Beckman Coulter Eurocenter S.A.  
22, rue Juste-Oliver, Case Postale 1044,  
CH-1260 Nyon 1, Switzerland.  
Telephone +41 (0)22 365 36 11  
Monday through Friday, 9:00 am to  
7:00pm)**e-mail address** SDSNT@beckman.com**1.4 Emergency telephone number****Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)  
703-527-3887**Distributor and Emergency Phone No.**Refer to attached list, Document ID: [472050](#), for local distributor and emergency  
phone numbers.

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**Section 2 Hazards Identification**

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**2.1 Classification of substance or mixture****Product Description** Mixture  
Yellow-orange; Clear; Liquid; Acrid**Classification according to EC 1272/2008 (CLP/GHS)**  
Corrosive To Metal Category 1**Classification according to EC Directives 1999/45/EC and 67/548/EEC**  
Xn;R20-36/38**Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS**  
Corrosive To Metal Category 1

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## Section 2 Hazards Identification (Continued)

### 2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

#### Hazardous Ingredients

Hydrochloric Acid

#### Pictogram



#### Signal Word

WARNING

#### Hazard Statements

H290 May be corrosive to metals.

#### Precautionary Statements

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

P406 Store in corrosive resistant container with a resistant inner liner.

Product label will display most significant precautionary statements.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and Information on Ingredients

### 3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Hydrochloric Acid CAS # 7647-01-0 EINECS # 231-595-7 Index # 017-002-01-X	1 - 5	C;R34-37	Acute Tox. Oral 4 STOT SE 3 Skin Corr. 1B H302; H314; H335	Acute Tox. Oral 4 STOT SE 3 Skin Corr. 1B H302; H314; H335	

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

## Section 4 First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

#### 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 and obtain medical attention immediately.

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### Section 4 First Aid Measures (Continued)

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|---------------------|--|
| <b>Skin Contact</b> | In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention. |
| <b>Ingestion</b>    | If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.  |
- 4.2 Most important symptoms and effects, both acute and delayed**  
Exposure may result in irritation of skin and eyes.  
See Section 11 Toxicological Information for more detailed health information.
- 4.3 Indication of any immediate medical attention and special treatment needed**  
If eye irritation persists: Get medical advice/attention.

### Section 5 Fire Fighting Measures

- |                             |                                |
|-----------------------------|--------------------------------|
| <b>Flammable Properties</b> | Nonflammable aqueous solution. |
|-----------------------------|--------------------------------|
- 5.1 Extinguishing Media** In case of fire use carbon dioxide (CO<sub>2</sub>), dry chemical, water spray or foam.  
For large fires use extinguishing media suitable for surrounding fire.
- 5.2 Special hazards arising from the substance or mixture**  
**Special Fire and Explosion Hazards**  
No special hazards determined.
- Hazardous Combustion Products**  
No combustion products posing significant hazards are expected from this product (an aqueous solution).
- 5.3 Advice for fire fighters**  
**Protective Equipment** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
- 5.4 Additional information** No further relevant information available.

### Section 6 Accidental Release Measures

- |   |  |
|---|--|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b><br><b>Personal Precautions</b> | Observe general safety guidelines for protection; avoid eye and skin contact.<br>Wear protective gloves, protective clothing and tightly sealed eye/face protection. |
| <b>6.2 Environmental Precautions</b>  | Contain spill to prevent migration.<br>Do not allow the undiluted product to enter sewers/surface or ground water.   |
| <b>6.3 Methods and material for containment and cleaning up</b><br><b>Spill and Leak Procedures</b>           | Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.   |
| <b>6.4 Reference to other sections</b>  | Refer sections 8 and 13.   |

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### Section 7 Handling and Storage

- 7.1 Precautions for safe handling** Use good laboratory procedures; avoid eye and skin contact.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store at 2 to 8°C , as directed on the product label.  
To maintain product quality, store according to the instructions in the product labeling.  
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).
- 7.3 Specific end uses** No further relevant information available.

### Section 8 Exposure Controls and Personal Protection

- 8.1 Control parameters**
- Exposure Limits**
- US OSHA**  
Hydrochloric Acid  
CAS # 7647-01-0 5 ppm Ceiling; 7 mg/m3 Ceiling
- ACGIH**  
Hydrochloric Acid  
CAS # 7647-01-0 2 ppm Ceiling
- DFG MAK**  
Hydrochloric Acid  
CAS # 7647-01-0 4 ppm Peak; 6 mg/m3 Peak; 2 ppm TWA MAK; 3.0 mg/m3 TWA MAK
- Ireland**  
Hydrochloric Acid  
CAS # 7647-01-0 5 ppm TWA; 8 mg/m3 TWA; 10 ppm STEL (as F); 15 mg/m3 STEL
- IOELVs**  
Hydrochloric Acid  
CAS # 7647-01-0 5 ppm TWA; 8 mg/m3 TWA; 10 ppm STEL; 15 mg/m3 STEL
- NIOSH**  
Hydrochloric Acid  
CAS # 7647-01-0 50 ppm IDLH
- Japan** None established
- 8.2 Exposure controls**
- Engineering Controls** No special engineering controls are required. Use with good general ventilation.
- 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.

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### Section 8 Exposure Controls and Personal Protection (Continued)

<b>Skin Protection</b>	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.
<b>Respiratory Protection</b>	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.

### Section 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	Not determined
<b>Color</b>	Yellow-orange	<b>Solubility</b>	
<b>Transparency</b>	Clear	<b>Water</b>	Miscible
<b>Odor</b>	Acrid	<b>Organic</b>	Not determined
<b>pH</b>	<2	<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Auto-ignition Temp.</b>	Not applicable
<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammability Limits</b>	Not applicable	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not applicable
<b>Odor Threshold</b>	Hydrochloric Acid no geometric mean air odor threshold		

**9.2 Other Information** No further relevant information available.

### Section 10 Stability and Reactivity

- 10.1 Reactivity** No further relevant information available.
- 10.2 Chemical Stability** The product is stable in accordance with recommended storage conditions.
- 10.3 Possibility of hazardous reactions** No further relevant information available.

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### Section 10 Stability and Reactivity (Continued)

- 10.4 Conditions to Avoid** To maintain product performance keep away from strong acids, strong bases, strong oxidizers.  
Avoid exposure to heat and direct sunlight.
- 10.5 Incompatible materials** No further relevant information available.
- 10.6 Hazardous Decomposition Products**  
No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

### Section 11 Toxicological Information

#### 11.1 Information on toxicological effects

##### Toxicity Data for Hazardous Ingredients

Hydrochloric Acid  
CAS # 7647-01-0

Dermal LD50 Rabbit >5010 mg/kg; Inhalation LC50 Rat 1.68 mg/L 1 h; Oral LD50 Rat 238 - 277 mg/kg

**Primary Routes of Exposure** Eye contact, ingestion, inhalation, and skin contact.

**Skin Corrosion/Irritation** May cause skin irritation.

**Serious eye damage/eye irritation** May cause eye irritation.

**Respiratory/skin sensitization** No data available.

**Carcinogenicity** No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

**Germ cell mutagenicity** No data available.

**Reproductive Toxicity** No data available.

**Specific target organ toxicity – single exposure**

No data available.

**Specific target organ toxicity – repeated exposure**

No data available.

**Aspiration hazard** No data available.

**Other Information** No further relevant information available.

### Section 12 Ecological Information

#### 12.1 Ecotoxicity

**Fresh Water Species** No information available.

**Microtox** No information available.

**Water Flea** No information available.

**Fresh Water Algae** No information available.

**12.2 Persistence and degradability** Not determined for the product.

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## Section 12 Ecological Information (Continued)

<b>12.3 Bioaccumulation</b>	Not determined for the product.
<b>12.4 Mobility in soil</b>	Not determined for the product.
<b>12.5 Results of PBT and vPvB assessment</b>	Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
<b>12.6 Other Adverse Effects</b>	No further relevant information available.

## Section 13 Disposal Considerations

<b>13.1 Waste treatment methods</b>	
<b>Product Waste Disposal</b>	Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.
<b>Package disposal</b>	Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
<b>13.2 Additional information</b>	Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

## Section 14 Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>14.1 UN/ID Number</b>	1789	1789	1789	1789	1789
<b>14.2 Shipping Name</b>	Hydrochloric acid solution				
<b>14.3 Hazard Class</b>	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
<b>Subsidiary Risk</b>	None	None	None	None	None
<b>Classification Code</b>	Not applicable	Not applicable	Not applicable	C1	Not applicable
<b>14.4 Packing Group</b>	III	III	III	III	III
<b>Special Provisions</b>	A3, A803	223	Not applicable	Not applicable	None
<b>Additional information</b>					
<b>IATA ERG Code</b>	8L	Not applicable	Not applicable	Not applicable	Not applicable
<b>EmS</b>	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable
<b>NAERG Code</b>	Not applicable	Not applicable	157	Not applicable	157
<b>14.5 Environmental Hazards</b>					

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## Section 14 Transport Information (Continued)

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
<b>Marine Pollutant</b>	Not applicable	No	Not applicable	Not applicable	Not applicable

### 14.6 Special Precautions for user

No special precautions for users are required.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## Section 15 Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### US Federal and State Regulations

**SARA 313** Hydrochloric Acid is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

**CERCLA RG's, 40 CFR 302.4** Hydrochloric Acid is listed.

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** Hydrochloric Acid is listed.

#### **New Jersey Dept. of Health RTK List**

Hydrochloric Acid is listed.

**Pennsylvania RTK** Hydrochloric Acid is listed.

#### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

**Water Hazard Class (Germany)** WGK 1, low water endangering

**REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

#### **According to EC Directives (1999/45/EC and 67/548 EEC)**

Harmful  
Xn



#### **Risk and Safety Phrases**

R20 Harmful by inhalation.

R36/38 Irritating to eyes and skin.

#### Canada

This product is exempt from WHMIS label and SDS requirements.

**PIN** 1789

#### **Ingredients on Ingredient Disclosure List**

Hydrochloric Acid



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## Section 15 Regulatory Information (Continued)

### Ingredients with unknown toxicological properties

Product is exempt

### 15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

## Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 2</b> <b>Reactivity with Water: 0</b> <b>Contact: 2</b>	<b>Code</b> 0=None 1=Slight 2=Caution 3=Severe
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### Hazard Class, hazard statements and risk phrase description from section 3

C - Corrosive  
R34 Causes burns.  
R37 Irritating to respiratory system.  
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4  
Skin Corr. 1B - Skin Corrosion Category 1B  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H335 - May cause respiratory irritation.

### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road  
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act  
CLP - Classification, Labeling and Packaging  
DFGMAK - Republic Germany's maximum exposure limit  
GHS - Globally Harmonized System  
HCS - Hazard Communication Standard  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
ICAO - International Civil Aviation Organization  
IMDG - International Maritime Dangerous Goods  
IOELVs - European Unions' Indicative Occupational Exposure Limit Values  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PBT - Persistent bioaccumulative and toxic substances  
SARA - Superfund Amendments and Reauthorization Act  
TDG - Canadian Transportation Of Dangerous Goods Regulations.  
UN GHS - United Nations Globally Harmonized System  
US DOT - United States Department of Transportation

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### Section 16 Other Information (Continued)

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

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