

**Kit SDS Cover Sheet**

Document ID: OSR6186-75: Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

---

**Product Information**

---

<b>Product Name</b>	Iron
<b>Part Number</b>	OSR6186, OSR6286

**Components**

---

<b>Description</b>	Iron R1 Iron R2
--------------------	--------------------

**Transport Information**

---

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.



## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
 Revision Date (year/month/day) 2019/04/11  
 Last Revision Date (year/month/day) 2015/04/02

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

#### 1.1 Product Identifier

**Product Name** Iron R1  
**Part Number** Component of P/N OSR6186, OSR6286

#### 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 Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

##### e-mail address

SDSNT@beckman.com  
 Further information Contact:  
 Customer support Unit, Beckman Coulter Ireland Inc.  
 Technical Service Department Tel. +001-800-854-3633 (PST)  
 E-mail CC\_Support.ie@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  
 Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** In vitro diagnostic reagent.  
 Colorless to slightly yellow; Not available; Liquid; Mild

##### Classification according to EC 1272/2008 (CLP/GHS)

Skin Corrosion Category 1  
 Eye Damage Category 1

# SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

## Section 2 Hazards Identification (Continued)

### Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Skin Corrosion Category 1  
Eye Damage Category 1

#### 2.2 Label Elements

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

Poly(oxy-1,2-ethanediyl), .alpha.-[3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-

Hydrochloric Acid

#### Pictogram



#### Signal Word

DANGER

#### Hazard Statements

H314 Causes severe skin burns and eye damage.

#### Precautionary Statements

P280 Wear protective gloves, protective clothing and eye/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.  
P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/national regulations  
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 1272/2008 CLP/GHS	GHS	Note

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 3 Composition and Information on Ingredients (Continued)

Poly(oxy-1,2-ethanediyl), .alpha.-[3,5-dimethyl-1-(2- methylpropyl)hexyl]-.omega.-hydroxy- CAS # 60828-78-6 EINECS # Not available Index # Not available	1 - 2	Eye Dam. 1, H318	Acute Tox. Dermal 5, H313 Eye Dam. 1, H318 Skin Irrit. 3, H316
Hydrochloric Acid CAS # 7647-01-0 EINECS # 231-595-7 Index # 017-002-01-X	< 0.1	Acute Tox. Oral 4, H302 STOT SE 3, H335 Skin Corr. 1B, H314	Acute Tox. Oral 4, H302 STOT SE 3, H335 Skin Corr. 1B, H314

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for description of hazard class and hazard statements

### 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 by trained personnel and obtain medical attention immediately.

##### Eye Contact

If product enters eyes, rinse eyes gently with water for 15 minutes or longer, making sure that the eyelid is held open. Obtain medical advice/attention.

##### Skin Contact

In case of skin contact, rinse with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical advice/attention.

##### Ingestion

If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

See Section 11 Toxicological Information for more detailed health information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. Refer to Section 4.1.

### Section 5 Fire Fighting Measures

#### 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.

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 5 Fire Fighting Measures (Continued)

#### 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

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

##### Personal Precautions

Observe general safety guidelines for protection; avoid eye and skin contact.  
Wear protective gloves, protective clothing and tightly sealed eye/face protection.

#### 6.2 Environmental Precautions

Contain spill to prevent migration.  
Do not allow the undiluted product to enter sewers/surface or ground water.

#### 6.3 Methods and material for containment and cleaning up

##### Spill and Leak Procedures

Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

#### 6.4 Reference to other sections

Refer sections 8 and 13.

### 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/m<sup>3</sup> Ceiling

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

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

#### ACGIH

Hydrochloric Acid  
CAS # 7647-01-0 2 ppm Ceiling

#### DFG MAK

Hydrochloric Acid  
CAS # 7647-01-0 4 ppm Peak; 6 mg/m<sup>3</sup> Peak; 2 ppm TWA MAK; 3.0 mg/m<sup>3</sup> TWA MAK

#### Ireland

Hydrochloric Acid  
CAS # 7647-01-0 5 ppm TWA; 8 mg/m<sup>3</sup> TWA; 10 ppm STEL; 15 mg/m<sup>3</sup> STEL

#### IOELVs

Hydrochloric Acid  
CAS # 7647-01-0 10 ppm STEL; 15 mg/m<sup>3</sup> STEL; 5 ppm TWA; 8 mg/m<sup>3</sup> TWA

#### NIOSH

Hydrochloric Acid  
CAS # 7647-01-0 50 ppm IDLH

#### Japan

None established

#### Sweden (AFS 2015:7 and amendments)

Hydrochloric Acid  
CAS # 7647-01-0 2 ppm TLV; 3 mg/m<sup>3</sup> TLV; 4 ppm Binding STEL; 6 mg/m<sup>3</sup> Binding STEL

#### 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.

##### Skin Protection

Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

##### Respiratory Protection

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>	Colorless to slightly yellow	<b>Solubility</b>	
<b>Transparency</b>	Not available	<b>Water</b>	Fully miscible
<b>Odor</b>	Mild	<b>Organic</b>	Not determined

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 9 Physical and Chemical Properties (Continued)

<b>pH</b>	1.7	<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Freezing Point</b>	Similar to water, approximately 0°C	<b>Auto-ignition Temp.</b>	Product is not selfigniting
<b>Boiling Point</b>	Similar to water, approximately 100°C	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not determined
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Similar to water, approximately 23 hPa
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	None determined
<b>Flammability Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not applicable
<b>Odor Threshold</b>	Hydrochloric Acid 0.06 ppm odor threshold value (detectable)		
<b>9.2 Other Information</b>	No further relevant information available.		

### Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical Stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to Avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 11 Toxicological Information

#### 11.1 Information on toxicological effects

##### Toxicity Data for Hazardous Ingredients

Poly(oxy-1,2-ethanediyl),  
.alpha.-[3,5-dimethyl-1-(2-  
methylpropyl)hexyl]-.omega.-  
hydroxy-  
CAS # 60828-78-6

Dermal LD50 Rabbit 4780 µL/kg; Oral LD50 Rat 5650 mg/kg

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.

**Acute Toxicity** Not classified based on available data.

**Skin Corrosion/Irritation** Contact may cause severe skin burns.

**Serious eye damage/eye irritation** Contact may cause serious eye damage.

**Respiratory/skin sensitization** Not classified based on available data.

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

**Germ cell mutagenicity** Not classified based on available data.

**Reproductive Toxicity** Not classified based on available data.

##### Specific target organ toxicity – single exposure

Not classified based on available data.

##### Specific target organ toxicity – repeated exposure

Not classified based on available data.

**Aspiration hazard** Not classified based on available data.

**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.

**12.3 Bioaccumulation** Not determined for the product.



## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 12 Ecological Information (Continued)

- 12.4 Mobility in soil** Not determined for the product.
- 12.5 Results of PBT and vPvB assessment**  
Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
- 12.6 Other Adverse Effects** No further relevant information available.

### Section 13 Disposal Considerations

- 13.1 Waste treatment methods**
- Product Waste Disposal** 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.
- Package disposal** 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.
- 13.2 Additional information** Suggested European waste catalogue 18 01 06\* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

### Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

- 14.1 UN/ID Number:** Not regulated for transportation
- 14.2 Shipping Name:** Not regulated for transportation
- 14.3 Hazard Class:** Not regulated for transportation
- 14.4 Packing Group:** Not regulated for transportation
- 14.5 Environmental Hazards:** Not regulated for transportation
- 14.6 Special Precautions for user:** None
- 14.7 Transport in bulk according to Annex II of MARPOL 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 (Section 313, Title III reporting requirements)**
- |                 |                   |                               |
|-----------------|-------------------|-------------------------------|
| CAS # 7647-01-0 | Hydrochloric Acid | 1.0% de minimis concentration |
|-----------------|-------------------|-------------------------------|

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 15 Regulatory Information (Continued)

#### CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4

CAS # 7647-01-0 Hydrochloric Acid

#### California Proposition 65

**⚠ WARNING** This product can expose you to chemical which is known to the State of California to cause cancer and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

##### Chemical which is known to the State of California to cause cancer

No ingredients listed.

##### Chemical which is known to the State of California to cause development toxicity

CAS # 1405-41-0 Gentamicin Sulfate

##### Chemical which is known to the State of California to cause male reproductive toxicity

No ingredients listed.

##### Chemical which is known to the State of California to cause female reproductive toxicity

No ingredients listed.

#### Massachusetts Right To Know (RTK) List

CAS # 7647-01-0 Hydrochloric Acid

#### New Jersey Dept. of Health Right To Know (RTK) List

CAS # 7647-01-0 Hydrochloric Acid

#### Pennsylvania Right To Know (RTK) List

CAS # 7647-01-0 Hydrochloric Acid

#### 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.

#### Canada

This product is exempt from WHMIS label and SDS requirements.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below the cutoff limits of 0.1% for Carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3*

# SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

## Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 3</b> <b>Reactivity with Water: 0</b> <b>Physical Contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
--------------------------------------	---	---

**Revision Changes**  
Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1.  
Updated Section 3, 4, 6 - 8, 11, 12, 14 - 16.  
Updated Section 9.

### Document version and issue/revision date

Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02  
Document ID: OSR6186-75  
Version: 05

### Description of hazard Class and hazard statements from Section 3

Acute Tox. Dermal 5 - Acute Toxicity Dermal, Category 5  
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4  
Eye Dam. 1 - Eye Damage Category 1  
Skin Corr. 1B - Skin Corrosion Category 1B  
Skin Irrit. 3 - Skin Irritation Category 3  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin  
H314 - Causes severe skin burns and eye damage.  
H316 - Causes mild skin irritation.  
H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.

### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail  
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 DGR - International Air Transport Association Dangerous Goods Regulation  
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

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 16 Other Information (Continued)

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  
WHMIS - Workplace Hazardous Material Information System  
vPvB - Very persistent and very bioaccumulative substances  
LD50 - Lethal Dose, 50%  
LC50 - Lethal Concentration, 50%

For further information, please contact your local Beckman Coulter, Inc. representative.

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER, INC. MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER, INC. SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.



## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
 Revision Date (year/month/day) 2019/04/11  
 Last Revision Date (year/month/day) 2015/04/02

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

#### 1.1 Product Identifier

**Product Name** Iron R2  
**Part Number** Component of P/N OSR6186, OSR6286

#### 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 Ireland Inc.  
 Lismeehan  
 O'Callaghan's Mills  
 Co. Clare  
 Ireland  
 Tel: 353 (0)65 6831100

##### e-mail address

SDSNT@beckman.com  
 Further information Contact:  
 Customer support Unit, Beckman Coulter Ireland Inc.  
 Technical Service Department Tel. +001-800-854-3633 (PST)  
 E-mail CC\_Support.ie@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  
 Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

##### Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

### Section 2 Hazards Identification

#### 2.1 Classification of substance or mixture

**Product Description** In vitro diagnostic reagent.  
 Colorless to slightly yellow; Not available; Liquid; Odorless

##### Classification according to EC 1272/2008 (CLP/GHS)

Skin Corrosion Category 1  
 Eye Damage Category 1

# SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

## Section 2 Hazards Identification (Continued)

### Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Skin Corrosion Category 1  
Eye Damage Category 1

#### 2.2 Label Elements

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

Hydrochloric Acid

#### Pictogram



#### Signal Word

DANGER

#### Hazard Statements

H314 Causes severe skin burns and eye damage.

#### Precautionary Statements

P280 Wear protective gloves, protective clothing and eye/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.  
P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/national regulations  
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 1272/2008 CLP/GHS	GHS	Note

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 3 Composition and Information on Ingredients (Continued)

Hydrochloric Acid CAS # 7647-01-0 EINECS # 231-595-7 Index # 017-002-01-X	< 0.1	Acute Tox. Oral 4, H302 STOT SE 3, H335 Skin Corr. 1B, H314	Acute Tox. Oral 4, H302 STOT SE 3, H335 Skin Corr. 1B, H314
--	-------	---	---

See section 8 for available Occupational exposure limits  
See Section 15 for additional regulatory information  
See Section 16 for description of hazard class and hazard statements

### Section 4 First Aid Measures

#### 4.1 Description of first aid measures

<b>Inhalation</b>	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.
<b>Eye Contact</b>	If product enters eyes, rinse eyes gently with water for 15 minutes or longer, making sure that the eyelid is held open. Obtain medical advice/attention.
<b>Skin Contact</b>	In case of skin contact, rinse with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical advice/attention.
<b>Ingestion</b>	If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.  
See Section 11 Toxicological Information for more detailed health information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. Refer to Section 4.1.

### Section 5 Fire Fighting Measures

**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.

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 6 Accidental Release Measures

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

##### Personal Precautions

Observe general safety guidelines for protection; avoid eye and skin contact.  
Wear protective gloves, protective clothing and tightly sealed eye/face protection.

#### 6.2 Environmental Precautions

Contain spill to prevent migration.  
Do not allow the undiluted product to enter sewers/surface or ground water.

#### 6.3 Methods and material for containment and cleaning up

##### Spill and Leak Procedures

Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

#### 6.4 Reference to other sections

Refer sections 8 and 13.

### 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/m<sup>3</sup> Ceiling

##### ACGIH

Hydrochloric Acid  
CAS # 7647-01-0

2 ppm Ceiling

##### DFG MAK

Hydrochloric Acid  
CAS # 7647-01-0

4 ppm Peak; 6 mg/m<sup>3</sup> Peak; 2 ppm TWA MAK; 3.0 mg/m<sup>3</sup> TWA MAK

##### Ireland

Hydrochloric Acid  
CAS # 7647-01-0

5 ppm TWA; 8 mg/m<sup>3</sup> TWA; 10 ppm STEL; 15 mg/m<sup>3</sup> STEL

##### IOELVs

Hydrochloric Acid  
CAS # 7647-01-0

10 ppm STEL; 15 mg/m<sup>3</sup> STEL; 5 ppm TWA; 8 mg/m<sup>3</sup> TWA



## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

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

#### NIOSH

Hydrochloric Acid  
CAS # 7647-01-0 50 ppm IDLH

**Japan** None established

#### Sweden (AFS 2015:7 and amendments)

Hydrochloric Acid  
CAS # 7647-01-0 2 ppm TLV; 3 mg/m<sup>3</sup> TLV; 4 ppm Binding STEL; 6 mg/m<sup>3</sup> Binding STEL

#### 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.

##### Skin Protection

Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

##### Respiratory Protection

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>	Colorless to slightly yellow	<b>Solubility</b>	
<b>Transparency</b>	Not available	<b>Water</b>	Fully miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	1.7	<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Freezing Point</b>	Similar to water, approximately 0°C	<b>Auto-ignition Temp.</b>	Product is not selfigniting
<b>Boiling Point</b>	Similar to water, approximately 100°C	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not determined
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Similar to water, approximately 23 hPa
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	None determined

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 9 Physical and Chemical Properties (Continued)

<b>Flammability Limits</b>	Not determined	<b>Explosive Properties</b>	Not applicable
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not applicable
<b>Odor Threshold</b>	Hydrochloric Acid 0.06 ppm odor threshold value (detectable)		
<b>9.2 Other Information</b>	No further relevant information available.		

### Section 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical Stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to Avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

### Section 11 Toxicological Information

<b>11.1 Information on toxicological effects</b>	
<b>Toxicity Data for Hazardous Ingredients</b>	
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
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Acute Toxicity</b>	Not classified based on available data.
<b>Skin Corrosion/Irritation</b>	Contact may cause severe skin burns.
<b>Serious eye damage/eye irritation</b>	Contact may cause serious eye damage.
<b>Respiratory/skin sensitization</b>	Not classified based on available data.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
<b>Germ cell mutagenicity</b>	Not classified based on available data.
<b>Reproductive Toxicity</b>	Not classified based on available data.

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 11 Toxicological Information (Continued)

#### Specific target organ toxicity – single exposure

Not classified based on available data.

#### Specific target organ toxicity – repeated exposure

Not classified based on available data.

#### Aspiration hazard

Not classified based on available data.

#### 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.

#### 12.3 Bioaccumulation

Not determined for the product.

#### 12.4 Mobility in soil

Not determined for the product.

#### 12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

#### 12.6 Other Adverse Effects

No further relevant information available.

### Section 13 Disposal Considerations

#### 13.1 Waste treatment methods

##### Product Waste Disposal

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.

##### Package disposal

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.

#### 13.2 Additional information

Suggested European waste catalogue 18 01 06\* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

**14.1 UN/ID Number:** Not regulated for transportation

**14.2 Shipping Name:** Not regulated for transportation

**14.3 Hazard Class:** Not regulated for transportation

**14.4 Packing Group:** Not regulated for transportation

**14.5 Environmental Hazards:** Not regulated for transportation

**14.6 Special Precautions for user:** None

**14.7 Transport in bulk according to Annex II of MARPOL 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 (Section 313, Title III reporting requirements)**

CAS # 7647-01-0

Hydrochloric Acid

1.0% de minimis concentration

##### **CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4**

CAS # 7647-01-0

Hydrochloric Acid

##### **California Proposition 65**

**⚠ WARNING** This product can expose you to chemical which is known to the State of California to cause cancer and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

##### **Chemical which is known to the State of California to cause cancer**

No ingredients listed.

##### **Chemical which is known to the State of California to cause development toxicity**

CAS # 1405-41-0

Gentamicin Sulfate

##### **Chemical which is known to the State of California to cause male reproductive toxicity**

No ingredients listed.

##### **Chemical which is known to the State of California to cause female reproductive toxicity**

No ingredients listed.

##### **Massachusetts Right To Know (RTK) List**

CAS # 7647-01-0

Hydrochloric Acid

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 15 Regulatory Information (Continued)

#### New Jersey Dept. of Health Right To Know (RTK) List

CAS # 7647-01-0 Hydrochloric Acid

#### Pennsylvania Right To Know (RTK) List

CAS # 7647-01-0 Hydrochloric Acid

#### 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.

#### Canada

This product is exempt from WHMIS label and SDS requirements.

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below the cutoff limits of 0.1% for Carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3*

### Section 16 Other Information

<b>Beckman Coulter Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 3</b> <b>Reactivity with Water: 0</b> <b>Physical Contact: 3</b>	Code 0=None 1=Slight 2=Caution 3=Severe
<b>Revision Changes</b>	Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1. Updated Section 3, 4, 6 - 8, 11, 12, 14 - 16. Updated Section 9.	
<b>Document version and issue/revision date</b>	Revision Date (year/month/day) 2019/04/11 Last Revision Date (year/month/day) 2015/04/02 Document ID: OSR6186-75 Version: 05	
<b>Description of hazard Class and hazard statements from Section 3</b>	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.	

## SAFETY DATA SHEET

Document ID: OSR6186-75 Version 05  
Revision Date (year/month/day) 2019/04/11  
Last Revision Date (year/month/day) 2015/04/02

### Section 16 Other Information (Continued)

#### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail  
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 DGR - International Air Transport Association Dangerous Goods Regulation  
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  
WHMIS - Workplace Hazardous Material Information System  
vPvB - Very persistent and very bioaccumulative substances  
LD50 - Lethal Dose, 50%  
LC50 - Lethal Concentration, 50%

For further information, please contact your local Beckman Coulter, Inc. representative.

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, BECKMAN COULTER, INC. MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER, INC. SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.