

Doc. ID: 300-7651 Rev. AC Revised (year/month/day) 2015/03/30

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

1.1 Product Identifier

Product Name iQ® Calibrator
Part Number 800-3103
Series Name iQ® 200

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 EC REP Address

IRIS International, Inc. mdi Europa GmbH
9172 Eton Avenue Langenhagener Str. 71
Chatsworth, CA 91311-5874, U.S.A. 30855 Hannover-Langenhagen

Tel: 800-776-4747 Germany

818-527-7000 +49-511-39089530

e-mail address contactIDD@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.

(800) 776-4747

### Section 2 Hazards Identification

### 2.1 Classification of substance or mixture

Product Description Mixture

Yellow-orange; Slighty turbid; Liquid; Odorless

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

Skin Sensitization Category 1

Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

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

Skin Sensitization Category 1
Toxic to Reproductive Category 2



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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**

N-(3-Chloroallyl)hexaminium Chloride

### **Pictogram**





### Signal Word

WARNING

### **Hazard Statements**

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

### **Precautionary Statements**

P201 Obtain special instructions before use.

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before use.

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

This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

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: Chemical Name We by wt. Hazard Classification of Pure Ingredients EU-67/548/EEC EU 1272/2008 CLP/GHS GHS



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# Section 3 Composition and Information on Ingredients (Continued)

N-(3-Chloroallyl)hexaminium  Chloride  CAS # 51229-78-8  EINECS # Not available Index # Not available	F;R11 Xn;R22	Flam. Sol. 2 Repr. 2 Skin Irrit. 2 Skin Sens. 1	Acute Tox. Oral 4 Aquatic Longterm 2 Flam. Sol. 2 Repr. 2 Skin Irrit. 2 Skin Sens. 1 H228; H302; H315; H317; H361; H411	
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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. If pain or irritation occur,

obtain medical attention.

**Skin Contact** In case of skin contact, flush with copious amounts of water for at least 15

minutes. Remove contaminated clothing and shoes. If pain or irritation occur,

obtain medical attention.

**Ingestion** 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

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

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.

# **Section 5 Fire Fighting Measures**

Flammable Properties Nonflammable aqueous solution.

**5.1 Extinguishing Media** In case of fire use carbon dioxide (CO2), 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).

product (arr aqueous solution).



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### **Section 5 Fire Fighting Measures (Continued)**

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 This product contains material of human origin and should be handled as though

capable of transmitting infectious diseases. Universal precautions should be

followed during clean up procedures.

Wear protective gloves, protective clothing and 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** As a precautionary measure, treat spilled material with a 1:10 bleach/water

solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal

regulations.

**6.4 Reference to other sections** Refer sections 8 and 13.

# **Section 7 Handling and Storage**

**7.1 Precautions for safe handling** This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

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

ACGIH

None established

DFG MAK

None established

None established

None established



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

IOELVsNone establishedNIOSHNone establishedJapanNone 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.

**Skin Protection** 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.

**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 phys	ical and chemical p	roperties	
	Physical State	Liquid	Specific Gravity (Water=1.0)	≈ 1.0070
	Color	Yellow-orange	Solubility	
	Transparency	Slighty turbid	Water	Miscible
	Odor	Odorless	Organic	Not determined
	рН	6.5 - 7.5	Partition coefficient: n-octanol/water	Not determined
	Freezing Point	Not determined	Auto-ignition Temp.	Not applicable
	Boiling Point	Not determined	Decomposition Temperature	Not determined
	Flash Point	Not applicable	Percent Volatiles	Not applicable
	<b>Evaporation Rate</b>	Not determined	Vapor Pressure	Not determined
	Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
	Flammability Limits	Not applicable	<b>Explosive Properties</b>	Not applicable
	Vapor Density	Not determined	Oxidizing Properties	Not applicable
	Odor Threshold	Not applicable		
9.2	Other Information	No further relevar	nt information available.	



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# 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.

**10.4 Conditions to Avoid** Avoid exposure to heat and direct sunlight.

To maintain product performance keep away from strong acids, strong bases,

strong oxidizers.

**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** 

Not applicable

**Primary Routes of Exposure** Common routes of entry include inhalation, ingestion and eye/skin contact.

Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

**Skin Corrosion/Irritation** No data available.

Serious eye damage/eye

irritation

No data available.

**Respiratory/skin sensitization** May cause an allergic skin reaction.

**Carcinogenicity** This product does not contain a reportable concentration (≥ 0.1%) of any ingredient

listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

**Germ cell mutagenicity** No data available.

**Reproductive Toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

**Aspiration hazard** No data available.



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### **Section 11 Toxicological Information (Continued)**

Other Information

This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

### **Section 12 Ecological Information**

12.1 Ecotoxicity

Fresh Water Species No information available. **Microtox** No information available. No information available. Water Flea 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

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to

enter sewer/surface or ground water.

# **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.

Dispose of as potentially biohazardous waste and 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 and approved

waste-disposal company for information.

13.2 Additional information

Suggested European waste catalogue 18 01 03\* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose

in accordance with national, state and local waste regulations

# **Section 14 Transport Information**

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

# Section 15 Regulatory Information

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



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# **Section 15 Regulatory Information (Continued)**

### **US Federal and State Regulations**

SARA 313 Methylene chloride is subject to reporting requirements of Section 313, Title III of

SARA, 0.1 % de minimis concentration

CERCLA RG's, 40 CFR 302.4 Methylene chloride is listed.

**California Proposition 65** Methylene chloride has been identified by the State of California to cause cancer.

The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to

cause cancer or reproductive harm.

**WARNING**: This product contains a chemical known to the State of California

to cause cancer.

Cis-1,3-dichloropropene has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State

to cause cancer or reproductive harm.

WARNING: This product contains a chemical known to the State of California

to cause cancer.

Massachusetts MSL Methylene chloride is listed.

Cis-1,3-dichloropropene is listed.

New Jersey Dept. of Health RTK List

Methylene chloride is listed.

Pennsylvania RTK Methylene chloride is listed.

Cis-1,3-dichloropropene 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)

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

### Canada

This product is exempt from WHMIS label and SDS requirements.

PIN Not applicable Ingredients on Ingredient Disclosure List

Methylene chloride

### 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.



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### **Section 16 Other Information**

3=Severe
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**Revision Changes** 

Updated to GHS.

### Hazard Class, hazard statements and risk phrase description from section 3

F - Highly flammable

Xn - Harmful

R11 Highly flammable.

R22 Harmful if swallowed.

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Flam. Sol. 2 - Flammable Solids, Category 2

Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2

Skin Irrit. 2 - Skin Irritation Category 2

Skin Sens. 1 - Skin Sensitization Category 1

Repr. 2 - Toxic to Reproductive Category 2

H228 - Flammable solid.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging fertility or the unborn child.

H411 - Toxic to aquatic life with long lasting effects.

### **Abbreviations and Acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road

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



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# **Section 16 Other Information (Continued)**

US DOT - United States Department of Transportation WHMIS - Workplace Hazardous Material Information System vPvB - Very persistent and very bioaccumulative substances

For further information, please contact your local Iris Diagnostics representative.

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