



SAFETY DATA SHEET

Doc. ID: 300-7664 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 Iris System Cleanser
Part Number 800-3203
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

IRIS International, Inc.
9172 Eton Avenue
Chatsworth, CA 91311-5874, U.S.A.
Tel: 800-776-4747
818-527-7000

EC REP Address

mdi Europa GmbH
Langenhagener Str. 71
30855 Hannover-Langenhagen
Germany
+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
Pale yellow; Clear; Liquid; Bleach odor

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

Skin Corrosion Category 1
Eye Damage 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)

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
Aquatic Hazard Acute, Category 2

2.2 Label Elements

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

Hazardous Ingredients

Sodium Hydroxide
Sodium Hypochlorite

Pictogram



Signal Word

DANGER

Hazard Statements

H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life

Precautionary Statements

P273 Avoid release to the environment.
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-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	

SAFETY DATA SHEET

Doc. ID: 300-7664 AC
Revised (year/month/day) 2015/03/30

Section 3 Composition and Information on Ingredients (Continued)

Sodium Hypochlorite CAS # 7681-52-9 EINECS # 231-668-3 Index # 017-011-00-1	1 - 5	C;R31-34 N;R50	Aquatic Acute 1 Eye Dam. 1 Skin Corr. 1B H314; H318; H400	Aquatic Acute 1 Eye Dam. 1 Skin Corr. 1B H314; H318; H400	
Sodium Hydroxide CAS # 1310-73-2 EINECS # 215-185-5 Index # 011-002-00-6	0.1 - 1	C;R 35	Eye Dam. 1 Skin Corr. 1A H314; H318	Eye Dam. 1 Skin Corr. 1A H314; H318	

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.

Skin Contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. 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

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.

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).

SAFETY DATA SHEET

Doc. ID: 300-7664 AC
Revised (year/month/day) 2015/03/30

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

Avoid inhaling, ingesting, and contact with eyes and skin.
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

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 20 to 28°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

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m3 TWA

ACGIH

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m3 Ceiling

DFG MAK

None established

SAFETY DATA SHEET

Doc. ID: 300-7664 AC
Revised (year/month/day) 2015/03/30

Section 8 Exposure Controls and Personal Protection (Continued)

Ireland

Sodium Hydroxide
CAS # 1310-73-2 2 mg/m3 STEL

IOELVs

None established

NIOSH

Sodium Hydroxide
CAS # 1310-73-2 10 mg/m3 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.

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 physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	≈ 1.01 @20°C
Color	Pale yellow	Solubility	
Transparency	Clear	Water	Miscible
Odor	Bleach odor	Organic	Not determined
pH	≥ 12.0	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
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not applicable	Explosive Properties	Not applicable

SAFETY DATA SHEET

Doc. ID: 300-7664 AC
Revised (year/month/day) 2015/03/30

Section 9 Physical and Chemical Properties (Continued)

Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		
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.
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	
Sodium Hydroxide CAS # 1310-73-2	Dermal LD50 Rabbit 1350 mg/kg
Sodium Hypochlorite CAS # 7681-52-9	Oral LD50 Rat 8200 mg/kg; Dermal LD50 Rabbit >10000 mg/kg
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.
Skin Corrosion/Irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Causes serious eye damage.
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.

SAFETY DATA SHEET

Doc. ID: 300-7664 AC
Revised (year/month/day) 2015/03/30

Section 11 Toxicological Information (Continued)

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

Sodium Hydroxide
CAS # 1310-73-2

96 h LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Sodium Hypochlorite
CAS # 7681-52-9

96 h LC50 Pimephales promelas: 0.06 - 0.11 mg/L [flow-through]; 96 h LC50 Pimephales promelas: 4.5 - 7.6 mg/L [static]; 96 h LC50 Lepomis macrochirus: 0.4 - 0.8 mg/L [static]; 96 h LC50 Lepomis macrochirus: 0.28 - 1 mg/L [flow-through]; 96 h LC50 Oncorhynchus mykiss: 0.05 - 0.771 mg/L [flow-through]; 96 h LC50 Oncorhynchus mykiss: 0.03 - <0.19 mg/L [semi-static]; 96 h LC50 Oncorhynchus mykiss: 0.18 - 0.22 mg/L [static]

Microtox

No information available.

Water Flea

Sodium Hypochlorite
CAS # 7681-52-9

96 h EC50 Daphnia magna: 2.1 mg/L; 48 h EC50 Daphnia magna: 0.033 - 0.044 mg/L [Static]

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

Toxic to aquatic life

This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

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.

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, 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

US Federal and State Regulations

SARA 313	No ingredients listed.
CERCLA RG's, 40 CFR 302.4	Sodium Hydroxide is listed. Sodium Hypochlorite is listed.
California Proposition 65	No ingredients listed.
Massachusetts MSL	Sodium Hydroxide is listed. Sodium Hypochlorite is listed.

New Jersey Dept. of Health RTK List

Sodium Hydroxide is listed.
Sodium Hypochlorite is listed.

Pennsylvania RTK

Sodium Hydroxide is listed.
Sodium Hypochlorite 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

Sodium Hydroxide
Sodium Hypochlorite

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.

SAFETY DATA SHEET

Doc. ID: 300-7664 AC
Revised (year/month/day) 2015/03/30

Section 16 Other Information

Safety Ratings	Flammability: 0 Health: 3 Reactivity with Water: 0 Contact: 3	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes

Updated to GHS.

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

C - Corrosive
N - Dangerous for the environment
R 35 Causes severe burns.
R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R50 Very toxic to aquatic organisms.
Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Eye Dam. 1 - Eye Damage Category 1
Skin Corr. 1A - Skin Corrosion Category 1A
Skin Corr. 1B - Skin Corrosion Category 1B
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life.

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
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances

Section 16 Other Information (Continued)

EC50 - Effective Concentration, 50%

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

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

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