



## SAFETY DATA SHEET FLOCON® MC15

### 1. Identification

#### Product identifier

**Product name** FLOCON® MC15  
**Chemical name** Liquid alkaline cleaner  
**Product number** 100535

#### Recommended use of the chemical and restrictions on use

**Application** Membrane cleaner

#### Details of the supplier of the safety data sheet

**Supplier** BWA Water Additives US LLC  
1979 Lakeside Parkway  
Suite 925  
Tucker, GA 30084  
USA  
T: (800) 600-4523  
(Technical/commercial enquiries)  
E: msds@wateradditives.com

**Distributed by:**

#### Emergency telephone number

**Emergency telephone** Chemtrec Phone: 1-800-424-9300

**National emergency telephone number** For Medical Emergency: 1-303-623-5716  
For Transport Emergency: 1-800-424-9300 (CHEMTREC)

### 2. Hazard(s) identification

#### Classification of the substance or mixture

**Physical hazards** Met. Corr. 1 - H290  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319  
**Environmental hazards** Not Classified

#### Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H290 May be corrosive to metals.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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### Precautionary statements

P234 Keep only in original container.  
 P264 Wash contaminated skin thoroughly after handling.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P302+P352 If on skin: Wash with plenty of water.  
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 Specific treatment (see medical advice on this label).  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P390 Absorb spillage to prevent material damage.  
 P406 Store in corrosive resistant/... container with a resistant inner liner.

### 3. Composition/information on ingredients

#### Mixtures

<b>POTASSIUM CARBONATE</b> CAS number: 584-08-7	<b>1-5%</b>
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335	
<b>SODIUM HYDROXIDE</b> CAS number: 1310-73-2	<b>1-5%</b>
<b>Classification</b> Skin Corr. 1A - H314 Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

**Composition comments**      Liquid alkaline cleaner

### 4. First-aid measures

#### Description of first aid measures

**Inhalation**      Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion**      Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.

**Skin Contact**      Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

**Eye contact**      Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

**Inhalation**      No specific symptoms known. Upper respiratory irritation.

**Ingestion**      May cause stomach pain or vomiting. May cause discomfort if swallowed.

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**Skin contact** Skin irritation.

**Eye contact** May cause severe eye irritation.

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

**Notes for the doctor** Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** The product is non-combustible. Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

### Special hazards arising from the substance or mixture

**Specific hazards** The product is non-combustible. Toxic gases or vapors. No unusual fire or explosion hazards noted.

### Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Severe corrosive hazard. Wear chemical protective suit.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. To prevent release, place container with damaged side up.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

**Reference to other sections** For waste disposal, see section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in a tightly-closed, original container in a dry, cool, and well-ventilated place. Store at temperatures not exceeding 50°C /122°F. Protect from freezing and direct sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogeneous. Store away from the following materials; alkalis, acids, cyanides, reducing agents, oxidizing materials and aluminum. Do not use containers made of Carbon steel. Keep separate from food, feeds, fertilizers, and other sensitive materials.

**Storage class** Corrosive storage.

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### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

#### **SODIUM HYDROXIDE**

Long-term exposure limit (8-hour TWA): ACGIH

Short-term exposure limit (15-minute): ACGIH 2 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

#### Exposure controls

##### **Protective equipment**



##### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

##### **Eye/face protection**

The following protection should be worn: Chemical splash goggles.

##### **Hand protection**

Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

##### **Other skin and body protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear apron or protective clothing in case of contact.

##### **Hygiene measures**

Provide eyewash station. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

##### **Respiratory protection**

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Light (or pale). Amber.
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available. Not available.
<b>pH</b>	pH (diluted solution): 11 - 13 @ 1%
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	100°C @
<b>Flash point</b>	Not available.
<b>Freezing Point:</b>	
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.

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<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.10 - 1.15 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Scientifically unjustified.
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.
<b>Other information</b>	Not available.

**10. Stability and reactivity**

<b>Reactivity</b>	Reactions with the following materials may generate heat: Strong acids.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	Will not polymerize.
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to avoid</b>	Strong acids. Strong oxidizing agents. Other metals or alloys.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

**11. Toxicological information****Information on toxicological effects****Supplemental Toxicological Information**

<b>Mutagenicity</b>	This product is not expected to be mutagenic
<b>Inhalation</b>	May cause respiratory system irritation.
<b>Ingestion</b>	May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhea.
<b>Skin Contact</b>	This product is strongly irritating. Prolonged contact may cause burns. Not a skin sensitizer.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b>Route of entry</b>	Skin and/or eye contact
<b>Target Organs</b>	Eyes Skin

**FLOCON® MC15****12. Ecological Information**

<b>Ecotoxicity</b>	There are no data on the ecotoxicity of this product.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The product contains inorganic substances which are not biodegradable. The other substances in the product are slowly biodegradable.
<b><u>Bioaccumulative potential</u></b>	
<b>Bio-Accumulative Potential</b>	The product does not contain any substances expected to be bioaccumulating.
<b>Partition coefficient</b>	Not available.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	The product is miscible with water. May spread in water systems.
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	Not available.

**13. Disposal considerations**

<b><u>Waste treatment methods</u></b>	
<b>General information</b>	When handling waste, the safety precautions applying to handling of the product should be considered.
<b>Disposal methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

**14. Transport information**

<b><u>UN Number</u></b>	
<b>UN No. (TDG)</b>	3266
<b>UN No. (IMDG)</b>	3266
<b>UN No. (ICAO)</b>	3266
<b>UN No. (DOT)</b>	3266
<b><u>UN proper shipping name</u></b>	
<b>Proper shipping name (TDG)</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Contains sodium hydroxide)
<b>Proper shipping name (IMDG)</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Contains sodium hydroxide)
<b>Proper shipping name (ICAO)</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Contains sodium hydroxide)
<b>Proper shipping name (DOT)</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (Contains sodium hydroxide)
<b><u>Transport hazard class(es)</u></b>	
<b>TDG class</b>	8
<b>IMDG Class</b>	8
<b>ICAO class/division</b>	8

**FLOCON® MC15****Transport labels****Packing group**

TDG Packing Group	III
IMDG packing group	III
ICAO packing group	III
DOT packing group	III

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

IMDG Code segregation group 18. Alkalies

EmS F-A, S-B

Classification Code (Adr) C5

**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed:

*SODIUM HYDROXIDE*

1,000 lbs (454 Kg)

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed.

**SARA 313 Emission Reporting**

None of the ingredients are listed.

**CAA Accidental Release Prevention**

None of the ingredients are listed.

**FDA - Essential Chemical**

None of the ingredients are listed.

**FDA - Precursor Chemical**

None of the ingredients are listed.

**OSHA Highly Hazardous Chemicals**

None of the ingredients are listed.

**US State Regulations**

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### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

### California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

### Massachusetts "Right To Know" List

None of the ingredients are listed.

### Rhode Island "Right To Know" List

None of the ingredients are listed.

### Minnesota "Right To Know" List

None of the ingredients are listed.

### New Jersey "Right To Know" List

None of the ingredients are listed.

### Pennsylvania "Right To Know" List

None of the ingredients are listed.

### Inventories

#### EU - EINECS/ELINCS

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*POTASSIUM CARBONATE*

*SODIUM HYDROXIDE*

#### Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA

All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed.

#### Australia - AICS

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*POTASSIUM CARBONATE*

*SODIUM HYDROXIDE*

#### Japan - MITI

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*POTASSIUM CARBONATE*



**FLOCON® MC15***SODIUM HYDROXIDE***JAPAN- IHSL****Korea - KECI**

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*POTASSIUM CARBONATE*

*SODIUM HYDROXIDE*

**China - IECSC**

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*POTASSIUM CARBONATE*

*SODIUM HYDROXIDE*

**Philippines - PICCS**

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*POTASSIUM CARBONATE*

*SODIUM HYDROXIDE*

**New Zealand - NZIOC**

The following ingredients are listed:

*WATER*

*POLYCARBOXYLIC ACID, SODIUM SALT*

*SODIUM HYDROXIDE*

**Taiwan -TCSI****16. Other information****General information**

For advice on chemical emergencies, spillages, fires or first aid in relation to this product please contact the relevant emergency number below : EU/English Speakers - +44 (0) 1235 239 670 (NCEC) Arabic Speakers - +44 (0) 1235 239 671 Asia/Pacific countries - +65 3158 1074 For emergencies within China - +86 10 5100 3039

**Revision comments**

Revised Storage Text in Section 7.

**Issued by**

BWA Water Additives Regulatory Group, +44(0)1618646699

**Revision date**

12/20/2016

**Revision**

4.1

**SDS No.**

11338

**FLOCON® MC15**

<b>Hazard statements in full</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
<b>NFPA - instability hazard</b>	Unstable if heated. (1)
<b>NFPA - special hazard</b>	COR
<b>ACA HMIS Health rating.</b>	Serious Hazard. (3)
<b>NFPA - health hazard</b>	Extremely hazardous, serious injury. (3)
<b>NFPA - flammability hazard</b>	Will not burn. (0)
<b>ACA HMIS Flammability rating.</b>	Will not burn. (0)
<b>ACA HMIS Physical hazard rating.</b>	Unstable if heated. (1)
<b>ACA HMIS Personal protection rating.</b>	D

For safety reasons it is IMPERATIVE that customers:-

1. Ensure that all those within their control who use the products are supplied with all relevant information contained within the Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions and warnings contained therein.

2. Consult BWA Water Additives before using or supplying the product for any other applications. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.