



## SAFETY DATA SHEET FLOCON® MC10

### 1. IDENTIFICATION

<b>Product Name</b>	FLOCON® MC10
<b>Chemical Name</b>	Solid alkaline cleaner
<b>Product No.</b>	100534
<b>Identification No.</b>	3262
<b>Identified uses</b>	Membrane cleaner
<b>Supplier</b>	BWA Water Additives US LLC 1979 Lakeside Parkway Suite 925, Tucker, GA30084 USA T: +1 800 600 4523 T: +1 678 802 3050 E: msds@wateradditives.com
<b>Emergency Telephone</b>	Chemtrec Phone: 1-800-424-9300

### 2. HAZARD(S) IDENTIFICATION

<b>Appearance</b>	Granular
<b>Color</b>	White / off-white.
<b>Odor</b>	Characteristic.
<b>GHS Pictogram</b>	



**Signal Word** Danger

#### Hazard Statements

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

#### Precautionary Statements

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	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.
P501	Dispose of contents/container in accordance with national regulations.

**Contains** SODIUM HYDROXIDE

#### GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Skin Corr. 1B - H314;STOT SE 3 - H335
Environment	Not classified.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label

**FLOCON® MC10**

Corrosive Material.

Materials Causing Other  
Toxic Effects.**Controlled Product Classification**

Canadian WHMIS Classification E D2B

**Inhalation**

Irritating to respiratory system.

**Ingestion**

May cause chemical burns in mouth, oesophagus and stomach.

**Skin Contact**

Causes severe burns.

**Eye Contact**

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

**Health Warnings**

This substance is corrosive.

**Route Of Entry**

Inhalation. Skin and/or eye contact. Ingestion.

**Target Organs**

Eyes Skin

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>POTASSIUM CARBONATE</b>	<b>60-100%</b>
<b>CAS No.: 584-08-7</b>	<b>EC No.: 209-529-3</b>
GHS Classification Not classified.	
<b>SODIUM HYDROXIDE</b>	<b>10-30%</b>
<b>CAS No.: 1310-73-2</b>	<b>EC No.: 215-185-5</b>
GHS Classification Skin Corr. 1A - H314	

**Composition Comments**

Solid alkaline cleaner

**4. FIRST-AID MEASURES****Description of first aid measures****Inhalation**

Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

**Ingestion**

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Never give liquid 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 the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. 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**

## FLOCON® MC10

### Inhalation

Irritation of nose, throat and airway.

### Ingestion

May cause chemical burns in mouth and throat.

### Skin Contact

Chemical burns.

### Eye Contact

May cause blurred vision and serious eye damage.

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

#### Notes To The Physician

Treat Symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Auto Ignition Temperature (°C)

Scientifically unjustified.

### Flammability Limit - Lower(%)

Not applicable.

### Flammability Limit - Upper(%)

Not applicable.

### Flash point (°C)

Not applicable.

### Extinguishing Media

The product is non-combustible. Use: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

### Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

### Specific Hazards

The product is non-combustible. If heated, harmful vapors may be formed.

### Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

### Protective Equipment For Fire-Fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire. Leave danger zone immediately.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

### Environmental Precautions

Do not discharge into drains, water courses or onto the ground. To prevent release, place container with damaged side up.

### Spill Clean Up Methods

Should be prevented from entering drains. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect and reclaim or dispose in sealed containers in licensed waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### Reference to other sections

For waste disposal, see section 13.

## 7. HANDLING AND STORAGE

### Handling

Avoid spilling, skin and eye contact. Provide good ventilation. Observe good chemical hygiene practices.

### Storage

Keep containers tightly closed. Do not store near heat sources or expose to high temperatures. Store away from: Acids. Oxidizing material.

### Storage Class

Corrosive storage.

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**FLOCON® MC10**

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
SODIUM HYDROXIDE	ACGIH				2 mg/m3	
SODIUM HYDROXIDE	OSHA				2 mg/m3	

COMPONENT	IDLH
SODIUM HYDROXIDE	10 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.

**Ingredient Comments**

WEL = Workplace Exposure Limits

**Protective Equipment****Process Conditions**

Provide eyewash station.

**Engineering Measures**

Provide adequate general and local exhaust ventilation.

Provide sufficient ventilation for operations causing dust formation.

**Respiratory Equipment**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

**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. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

**Eye Protection**

Wear approved safety goggles.

**Other Protection**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene Measures**

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

**Skin Protection**

Wear apron or protective clothing in case of contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Granular
<b>Color</b>	White / off-white.
<b>Odor</b>	Characteristic.
<b>Solubility</b>	20% +/- @ 25°C
<b>Melting point (°C)</b>	Not available.
<b>Bulk Density</b>	2 - 2.15 kg/l
<b>pH-Value, Diluted Solution</b>	11.5 - 12.5 @ 1%
<b>Solubility Value (G/100G H<sub>2</sub>O@20°C)</b>	20
<b>Decomposition temperature (°C)</b>	Not available.
<b>Odour Threshold, Lower</b>	Not available.
<b>Odour Threshold, Upper</b>	Not available.
<b>Flash point (°C)</b>	Not applicable.

## FLOCON® MC10

**Auto Ignition Temperature (°C)**

Scientifically unjustified.

**Flammability Limit - Lower(%)**

Not applicable.

**Flammability Limit - Upper(%)**

Not applicable.

**Partition Coefficient****(N-Octanol/Water)**

Not available.

**Explosive properties**

Scientifically unjustified.

**Oxidising properties**

Does not meet the criteria for oxidising.

Not available.

### 10. STABILITY AND REACTIVITY

**Reactivity**

Exothermic reaction with: Acids. Generates toxic gas in contact with acid.

**Stability**

Stable under normal temperature conditions and recommended use.

**Hazardous Polymerisation**

Will not polymerise.

**Conditions To Avoid**

Avoid excessive heat for prolonged periods of time.

**Materials To Avoid**

Strong acids. Strong oxidizing substances. Other metals or alloys.

**Hazardous Decomposition Products**

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### 11. TOXICOLOGICAL INFORMATION

**Mutagenicity**

This product is not expected to be mutagenic

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

There are no data on the ecotoxicity of this product.

**Degradability**

This product mainly consists of inorganic compounds which are not biodegradable. The remaining substances of the product are expected to be not readily biodegradable.

**Bioaccumulative potential**

The product does not contain any substances expected to be bio-accumulating.

**Partition coefficient**

Not available.

**Mobility:**

The product is water soluble and may spread in water systems.

**Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

**Other adverse effects**

Not available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Management**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**Disposal Methods**

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

**FLOCON® MC10**

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>UN No. (DOT/TDG)</b>	3262
<b>UN No. (IMDG)</b>	3262
<b>UN No. (ICAO)</b>	3262
<b>DOT Proper Shipping Name</b>	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (Contains sodium hydroxide)
<b>TDG Proper Shipping Name</b>	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (Contains sodium hydroxide)
<b>DOT Hazard Class</b>	8
<b>DOT Hazard Label</b>	Corrosive
<b>IMDG Class</b>	8
<b>ICAO Subsidiary Risk</b>	8
<b>Transport Labels</b>	



<b>DOT Pack Group</b>	II
<b>IMDG Pack Group</b>	II
<b>Air Pack Group</b>	II
<b>Environmentally Hazardous Substance/Marine Pollutant</b>	No.
<b>IMDG Code Segregation Group</b>	18. Alkalis.
<b>EMS</b>	F-A, S-B
<b>Classification Code (Adr)</b>	C6

**15. REGULATORY INFORMATION****Regulatory Status (US)**

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required. TSCA: The ingredients of this product are on the TSCA Inventory.

**Regulatory References**

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

**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.

## FLOCON® MC10

### CAA Accidental Release Prevention

None of the ingredients are listed.

### SARA (311/312) Hazard Categories

Sodium hydroxide is listed as a Clean Water Act Section 311 Hazardous Substance.

### OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

### US State Regulations

#### California Proposition 65 Carcinogens and Reproductive Toxins

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.

### International Inventories

#### EU - EINECS/ELINCS

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM HYDROXIDE

#### Canada – DSL/NDSL

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM GLUCONATE

SODIUM HYDROXIDE

#### US - TSCA

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM GLUCONATE

SODIUM HYDROXIDE

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

None of the ingredients are listed.

#### Australia - AICS

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM HYDROXIDE

#### Japan – MITI

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM HYDROXIDE

#### Korea - KECI

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM HYDROXIDE

#### China - IECSC

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM HYDROXIDE

#### Phillippines – PICCS

The following ingredients are listed.

POTASSIUM CARBONATE

SODIUM HYDROXIDE

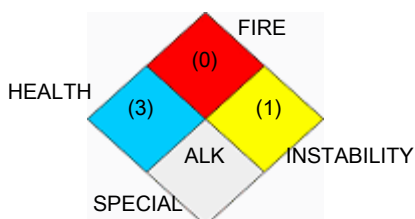
#### New Zealand - NZIOC

The following ingredients are listed.

SODIUM HYDROXIDE

**FLOCON® MC10****16. OTHER INFORMATION****HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

HEALTH	3
FLAMMABILITY	0
PHYSICAL	1
PERSONAL PROTECTION	D

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)****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**

Conversion to GHS (HCS 2012 / WHMIS 2015)

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

**Revision Date** 6th March, 2015

**Revision** 5

**Sds No.** 10711

**Disclaimer**

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.