

Date: 9 January 2009

## Material Safety Data Sheet

### Section 1 - Identification of the substance/preparation and company

**Trade Name** Aquachem 111  
**Chemical Name/Synonyms -** Modified Quaternary amine, Quat  
**Formula** mixture  
**UNNO**

**Name of Company** Aqueous Logic  
**Address** 248 Sutton Common Road  
Sutton, Surrey SM3 9PW  
**Telephone no.** (0208) 288-0128

### Section 2 - Composition/information on ingredients

Substance	% composition	risk phrases	CAS number
Modified quaternary amine	1%	N, Xi; R41, R38, R50/53	81741-28-8

### Section 3 - Hazards Identification

**Hazards** Skin irritant hazard  
Eye hazard  
Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

**Adverse effects**

<b>Skin</b>	Brief contact may result in mild to moderate local redness and swelling. Prolonged contact will cause severe inflammation.
<b>Eyes</b>	Vapour can cause stinging of the eye but not damage. Hurts like hell if contact occurs. Damage to eyes may occur.
<b>Ingestion</b>	Irritation to the mouth, throat and stomach. Full toxicological effects not available.
<b>Inhalation</b>	Irritant to the respiratory tract.

As part of our commitment to Responsible Care, we recommend that all purchased chemical products should be only discharged in dilute form to drains that are connected to the sanitary sewer to insure minimal environmental impact. All the ingredients within this product can be degraded/ safely absorbed by the environment

### Section 4 - First Aid measures

**Skin** Wash with soap and water.  
**Eyes** Immediately flush with water for at least 15 minutes. Seek medical attention.  
**Ingestion** If conscious give large quantities of water. Seek medical attention.  
**Inhalation** Remove to fresh air. If problems continue, seek medical attention..

**Section 5 - Fire-fighting measures**

N.B. Product is non-flammable.

<b>Suitable extinguishing media</b>	Not applicable.
<b>Special protective equipment</b>	Wear self contained breathing apparatus.

**Section 6 - Accidental release measures**

Absorb onto sand. Minimise product flowing into drains or water courses.

<b>For large spills</b>	Dike and contain. Place in non-leaking containers for disposal.
<b>For small spills</b>	Soak or mop up.

**Section 7 - Handling and storage**

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Do not ingest.
<b>Storage</b>	Store away from food, drink and animal feeding stuffs.

*We recommend that when handling all chemicals, the minimum precautions are the wearing of gloves and goggles. Efforts to minimize contact with chemicals should always be made.*

**Section 8 - Exposure controls/personal protection**

<b>Protective measures -</b>	<b>Respiratory protection</b>	not required
	<b>Hand protection</b>	PVC gloves
	<b>Eye protection</b>	goggles
	<b>Skin protection</b>	overalls

**Section 9 - Physical and chemical properties**

<b>Appearance</b>	clear liquid
<b>Odour</b>	slight odour
<b>pH</b>	6 - 8
<b>Boiling point</b>	100 C
<b>Melting point</b>	N/A
<b>Flammability</b>	non-flammable
<b>Specific gravity</b>	N/A
<b>Solubility in water</b>	complete

**Section 10 - Stability and reactivity**

<b>Stability</b>	stable
<b>Conditions to avoid</b>	none
<b>Materials to avoid</b>	none

## **Hazardous decomposition products**

Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, phosphorus oxides and chlorine compounds.

## **Section 11 - Toxicological information**

Contact with skin may lead to redness and swelling. Prolonged contact will cause severe inflammation. Contact with eyes causes irritation and possible damage. Vapour may cause stinging of the eye. Inhalation will cause irritation of the respiratory tract. Ingestion will cause irritation of the mouth, throat and stomach. Full toxicological information not available.

## **Section 12 - Ecological information**

Toxic to fish. Not readily biodegradable.  
Do not discharge to streams or open water ways.

## **Section 13 - Disposal considerations**

Large amounts should be given to licensed disposal agency.  
Spillages should be absorbed onto sand and disposed of as solid waste according to local regulations.  
Surplus product can be incinerated.

## **Section 14 - Transport information**

## **Section 15 - Regulatory information**

R38	Irritating to skin
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S-56	Dispose of this material and its container to hazardous or special collection point.
S-61	Avoid release to the environment. Refer to special instructions/ safety data sheets.

## Section 16 - Other information

This product contains a modified quaternary amine which means it falls under the heading of a pesticide.

Keep container tightly closed when not in use  
KEEP OUT OF THE REACH OF CHILDREN

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet or on the Product Label is the responsibility of the user.