



### 1. DEFINITION OF MATERIAL AND COMPANY

**1.1 Product Name:** AQM 155

**1.2 Application:** Cleaning compound for membranes & pre-treatment plants

**1.3 Company Information:**

Headquarters:

MEMPA PAZARLAMA INSAAT SAN. ve TIC. A.S.

Istanbul World Trade Center, A2 Block No:10 Floor:2 Office No:135, Yesilkoy, Bakirkoy, Istanbul, TURKEY

T: 00 90 212 886 91 26, F: 00 90 212 886 45 91, [www.mempa.com.tr](http://www.mempa.com.tr)

Branch:

Organized Industrial Zone Street: 1000 No : 11 Germencik-Ortaklar, Aydin, TURKEY

Tel : 00 90 256 577 11 33 - 34

**1.4 Emergency telephone:** 00 90 212 886 91 26

### 2. DEFINITION OF HAZARD

**2.1 Classification of the substance or product:**

**Classification in accord with Directive (AT) Numbered 1272/2008:**

Acute toxicity – Category 4	H302
Acute toxicity – Category 4	H312
Skin corrosion/Irritation – Category 1B	H314
Skin sensitivity- Category 1	H317
Acute toxicity – Category 4	H332
Acute water toxicity – Category 1	H400
Chronicle water toxicity – Category 1	H410

**Classification in accord with AB Directives 67/548/AET or 1999/45/ET:**

This product is classified as hazardous in accord with Preparations Directive 1999/45/EC.

C, CORROSIVE R20/21/22, R34, R43, R50/53

N, HAZARDOUS FOR ENVIRONMENT

Please see Chapter 16 to see all details of risk phrases, hazard disclosures and notes.

**2.2 Label information and records:**

**Labeling in accord with Directive (AT) Numbered 1272/2008:**

Content: Mixture of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3 one (3:1)



**Hazard pictograms:**



**Signal Word:** Hazard

**Hazard Disclosures:**

H302	Hazardous in case of swallowing.
H312	Bad for health in case of contact with skin.
H314	Causes skin burns and eye damage critically.
H317	It may cause allergic skin reaction.
H332	Breathing is harmful .
H400	Very toxic for water life.
H410	Very toxic for water life with long-term effects.

**Precaution Disclosures:**

P260	Don't breathe dust/ soot/ gas/ smoke/ steam/ spray.
P273	Prevent its diffusion around.
P280	Use protective glove/ protective cloth/ eye protection/ face protection.
P303 + P361 + P353	IF IT SMUDGES ON THE SKIN (or hair): Take off all the clothes immediately. Wash the skin with water.
P305 + P351 + P338	IF IT CONTACTS WITH THE EYE: Rinse your eye thoroughly with water for a few minutes. If you have contact lenses and it is possible, remove your lenses. Continue to rinse.
P310	Apply to a POISON CENTER or a doctor immediately.

**2.3 Other hazards:**

No known hazards.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**3.1 Solid matter:**

No data available.

**3.2 Mixture:**



Hazardous Material(s)	% (w/w)	Classification in accord with Directive (AT) Numbered 1272/2008	Classification in accord with 67/548/EEC
Sodium Nitrate EC-No.:231-554-3 CAS-No.:7631-99-4	10.0-30.0	Oxidizing gases 3:H272 Serious eye defect/irritation 2:H319	O R08
Mixture of 5-chloro-2-methyl-2H-isothiazole-3-one and 2-methyl-2H-isothiazole-3 one (3:1) EC-No.: 247-500-7, 220-239-6 CAS-No.: 55965-84-9	3.0-5.0	Skin corrosion/irritation 1B:H314 Acute toxicity 3:H331 Acute toxicity 3:H301 Acute toxicity 3:H311 Skin sensitivity 1: H317 Acute Water toxicity 1: H400 Chronicle water toxicity 1 :H410	T,N R23/24/25 , R34 R43 R50/53
Magnesium Nitrate EC-No.:233-826-7 CAS-No.:10377-60-3	1.0-5.0	Oxidizing gases 3:H272 Serious eye defect/irritation 2:H319	O R08

See Chapter 16 to see all details of risk phrases, hazard disclosures and notes.

## 4.FIRST AID MEASURES

### 4.1 Definition of required first aid measures:

In case of any emergency situation, evaluate the hazard before taking action. Don't put yourself at injury risk. If you have any doubts, contact with emergency response team.

#### **Breathing:**

Take exposed person outside and treat them based on the symptoms. Get medical aid.

#### **Contact with skin:**

Wash thoroughly for 15 minutes immediately. Get medical aid. In case of substantial splashing, rinse the body with plenty of water under shower.

#### **Contact with eye(s):**

IN CASE OF CONTACT WITH EYE(S), ACTION SHOULD BE TAKEN IMMEDIATELY. Wash with plenty of water for 15 minutes immediately. Get medical aid.

#### **Swallowing:**

Get medical aid immediately by showing the label and/or SDS (Safety Data Page). If the patient is conscious, was his/her mouth and give water to drink. Don't give anything oral in case of loss of consciousness, try to heal and check the respiration and pulse. If necessary, give him/her the kiss of life.

#### **Protecting the first aiders:**

**Use personal protective equipment in sufficient amounts.**



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

There is not any detail except defined ones before.

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

Doctor's decision is applied after checking the clinical situation of the patient.

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

##### Proper fire engine:

Whole water inside the product does not burn without vaporizing. Vaporization residual may ignite. In this case, a proper fire engine may be used.

#### 5.2 Special hazards arising from the substance or mixture:

The product may form carbon dioxides (Cox) and nitrogen oxides (NOx). If it spreads around, flow of fire extinguishing water into sewage system should be prevented.

#### 5.3 Advice for Firefighters:

##### Special measures and protective equipment for firemen :

In case of fire, the firemen who didn't get the necessary training should be sent away. Fire crew should use a positive pressure close system face mask entirely covering the face and protective cloth.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

##### ADVICE FOR NON-EMERGENCY PERSONNEL

Enable only trained personnel to do cleaning for small amounts of pouring, for instance less than 10 liters. Use individual protective equipment which is recommended in Chapter 8 (Exposure Controls/Individual Protection). Until the end of cleaning process, restrict access to the area properly. In case of large amounts of pouring, only emergency response team should do the cleaning. For pouring more than 10 liters, inform the emergency personnel immediately. Use individual protective equipment which is recommended in Chapter 8 (Exposure Controls/Individual Protection). Until the end of cleaning process, restrict access to the area properly. If possible, let some fresh air into the pouring area. Ensure that the cleaning is done only by trained personnel. Keep emergency equipment (fire, pouring, leakage etc.) ready and inform the related state officers, occupational, health, safety and environment authorities.

##### ADVICE FOR EMERGENCY RESPONDERS

Until the end of cleaning process, restrict access to the area. Use individual protective equipment which is recommended in Chapter 8 (Exposure Controls/Individual Protection). If possible, let some fresh air into the pouring area. Ensure that the cleaning is done only by trained personnel. Keep emergency equipment (fire, pouring, leakage etc.) ready and inform the related state officers, occupational, health, safety and environment authorities.

#### 6.2 Environmental precautions:



Take measure against spread and flow of the poured material and its mixing to sewage with garbage. Moreover, inform the authorized bodies to prevent the material to cause environmental pollution.

### **6.3 Methods and materials for containment and cleaning:**

#### **Spillages in small areas:**

Collect the poured material by making it sucked by an absorbent. Put the residuals collected into a suitable and closed pot. Wash the pouring area.

#### **Spillages in large areas:**

Form large holes in the pouring area and make the product sucked by an absorbent. Then, wash the area. Put these residuals into barrels or containers and then, make them removed by an approved a waste conveyer.

### **6.4 Reference to other sections:**

See article 1 for emergency information. See article 8 for individual protective equipment. See article 13 for removal of waste.

## **7.HANDLING AND STORAGE**

### **7.1 Conditions about safe use**

#### **Usage:**

Wear proper individual protection equipment. Prevent contact with skin and eyes. Let sufficient air into the area during usage. Keep the product in its original pot or in approved packages. Store it complying with the local regulation. Keep it away from food products and beverages. Close the open sides of product's package tightly and ensure its tightness. Never eat something while using it and it is working. Don't drink anything or smoke. There should be absolutely eye-wash station and safety shower in working area. If it splashes on the clothes, take them off and wash the affected part thoroughly. See 6.2 for Environmental Measures.

### **7.2 Conditions for safe storage, including any incompatibilities:**

#### **Storage conditions:**

Keep it in the pots with proper labels. Keep the pots close in tight conditions.

#### **Proper packaging materials:**

Stainless Steel 304, Stainless Steel 316L, PVC, HDPE (high-density polyethylene), Nylon, Polypropylene, PTFE, Polyvinylidene Difluoride, Neoprene, EPDM , Perfluoro Elastomer, Fluoroelastomer, Nitrile Plasite 7122

#### **Improper packaging materials:**

Brass, Carbon Steel, Plexiglass

### **7.3 Specific end uses:**

Specific use(s) : Cleaning compound for membranes & pre-treatment plant

## **8.EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Permissible exposure limit:**

This product does not contain any material having a determined permissible exposure limit.



### 8.2 Exposure controls:

#### Ventilation:

General ventilation is recommended. In order to control emissions close to the source, local ventilation aimed to eject is recommended. Laboratory samples should be used within a head against smoke. Enable indoors to be ventilated by mechanical means.

#### Individual protection equipment:

##### General suggestion:

At least, we generally suggest safety goggles and equipment protecting arms and the body. The visitors should wear safety goggles having side protection even in the places where this product is used.

##### Eye protection /Face protection:

While working with this product, wearing safety goggles having side protection is recommended. You may find the effective European standards in EN 166.

##### Skin protection:

It is recommended to wear gloves resistant to chemical substances while working with this product. Choosing protective gloves depend on the working conditions and which chemicals are used, but we have positive experiences regarding the use of the gloves made from the following material under mild working or usage conditions. When PVC Degradation signals are observed on the gloves, they should be replaced with new ones. Their degradation period as preparation is not determined. Apply to PPE manufacturer. You may find effective European Standards in EN ISO 20345.

##### Protection for respiratory system:

Any exposure limit is not determined for this product or its components. Ondeo Nalco recommends the use of a filtered type half mask or aired respirator. Proper filter material depends on the amount and type of chemical substances used. You may use this filter type: It may found in P Effective European standards EN 140, EN 137, EN 143 and EN 14387. When it is contacted with unknown concentrations conspiratorially or in emergency, positive pressure SCBA covering the whole face should be used. If respiration protection is needed, use a complete respiration protection programme including selection, compliance test, training, maintenance and examination stages.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: These physical properties are typical values for the product and may vary according to the conditions.

### 9.1 Information on basic physical and chemical properties:

Physical State	Liquid
Apperance	Straw color
Odour	None
Odour Threshold	No data available
pH (100%)	3,7



Melting Point/Freezing Point/ Pour Point	No data available
Initial Boiling Point/Boiling Range	No data available
Flash Point	Not inflammable
Evaporation Rate	No data available
Flammability (Solid, gas)	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	The same with water's
Vapor Density	Data is unavailable
Relative Density	1.18 (25 °C)
Density	Data is unavailable
Water Solubility	Absolute
Octanol/Water Coefficient	No data available
Self-Ignition Temperature	No data available
Degradation Temperature	No data available
Viscosity	No data available
Explosive Properties	Not valid
Oxidizing Properties	Not valid

### 9.2 Other information:

Not applicable

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

Product is stable under normal circumstances.

### 10.2 Chemical stability:

Product is stable under normal circumstances.

### 10.3 Possibility of hazardous reactions:

Dangerous reactions do not occur under normal storage and usage conditions.

### 10.4 Conditions to avoid:

Very high temperature and too low temperatures.

### 10.5 Incompatible materials:

There is not recognized material.

### 10.6 Hazardous decomposition products:

Carbon dioxides, nitrogen oxides while the product is disintegrated due to fire.



**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

**Product:**

Acute oral toxicity	Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Based on available data, the classification criteria are not met.
Acute dermal toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Genotoxicity Assessment	Based on available data, the classification criteria are not met.
Probability of Causing Cancer	Based on available data, the classification criteria are not met.
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).	
Reproductive toxicity	Based on available data, the classification criteria are not met.
Assessment: No toxicity to reproduction	
Specific target organ systemic toxicity (single exposure)	Notes: Classification criterion is not met based on the existing information.
Specific target organ systemic Toxicity (repeating exposure)	Classification criterion is not met based on the existing information.
Toxicity through breathing	Aspiration toxicity classification is unavailable.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

The following results are for the product.

**Product:**

Toxicity to fish	LC50 : 320 mg/l , 96 hrs , Rainbow Trout, Test material: product NOEC: 150mg/l, 96 hrs, Rainbow Trout, Test material: product
Toxicity to daphnia and other Aquatic invertebrates	LC50 : 310 mg/l , 48 hrs , Daphnia Magna , Test material: product NOEC : 250mg/l, 48 hrs, Daphnia Magna , Test material: product

**Ecotoxicology Assessment:**

Acute aquatic toxicity	Not expected to be harmful to aquatic organisms.
Chronic aquatic toxicity	Not expected to demonstrate chronic toxicity to aquatic organisms.







assigned.

**14. TRANSPORT INFORMATION**

Information given in this chapter has only reference purpose and it can not substitute for the information in shipping document (consignment note). Please don't forget that proper transportation may change according to Name / Hazard Class, packaging, characteristics and transportation type. Typical Proper Transportation Names are given for this product.

**LAND TRANSPORT**

- 14.1 UN number:** Invalid
- 14.2 UN proper shipping name:** THERE ARE NOT ANY MEASURES AND REGULATIONS TO CONVEY THE PRODUCT
- 14.3 Transport Hazard class(es):** Invalid
- 14.4 Packing group:** Invalid
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user:** Invalid

**AIR TRANSPORT (ICAO/IATA)**

- 14.1 UN number:** Invalid
- 14.2 UN proper shipping name:** THERE ARE NOT ANY MEASURES AND REGULATIONS TO CONVEY THE PRODUCT
- 14.3 Transport Hazard class(es):** Invalid
- 14.4 Packing group:** Invalid
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user:** Invalid

**SEA TRANSPORT (IMDG/IMO)**

- 14.1 UN number:** Invalid
- 14.2 UN proper shipping name:** THERE ARE NOT ANY MEASURES AND REGULATIONS TO CONVEY THE PRODUCT
- 14.3 Transport Hazard class(es):** Invalid
- 14.4 Packing group:** Invalid
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user:** Invalid

**in accord with Appendix 2 of Marpol 73/78'in and IBC code**

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture:**

Since it is not classified as hazardous, P and H phrases are not available.



#### INTERNATIONAL CHEMICAL CONTROLLING LAWS

Mempa declares that the chemicals completely comply with EU Directive in terms of registration, evaluation and approval (REACH), so registration of all chemicals which are used in production of our product and we export and import is done.

#### **15.2 Chemical Risk Assessment:**

Any chemical safety evaluation is not done.

#### **16. OTHER INFORMATION**

This safety information form contains all kinds of regulatory information in terms of health and safety. The form is based on the existing data on its issue date. Training programs should be applied for safe working conditions while using the product in any way and for using it properly. Arranging these programs and facilities are under the user's responsibility. If required, the user can make changes on this safety information form.

#### **References :**

This safety information form has been prepared by taking the opinion of an expert authority and European Directives (including (EC) No. 1907/2006, (EC) No. 1272/2008, 67/548/EEC, 1999/45/EC) , suppliers' data, internet, ESIS, IUCLID, ERICards, official regulatory data out of Europe and other data sources into account.

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