



1. DEFINITION OF MATERIAL AND COMPANY

1.1 Product Name: AQM 177

1.2 Application: Membrane cleaning compound

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

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:

This product is not Classified in accord with Directive (AT) Numbered 1272/2008

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

This product is not classified as hazardous in accord with 67/548/EEC or 1999/45/EC.

2.2 Label information and records:

Labelling according to Regulation (EC) No. 1272/2008:

Although this product is not included in any class, please take the following precaution disclosures into account.

Precaution explanations:

P202 Don't use the product before reading and understanding all of the safety precautions.

P262 Don't contact the product with your eyes, skin or clothes.

P280 Use protective glove/ protective cloth/ eye protection/ face protection.

P314 If you don't feel yourself good, get medical aid/advice.

Additional information:

EUH210 Safety information form is available upon request.

2.3 Other hazards:

No known hazards.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Solid matter:



No data available.

3.2 Mixture:

This product is not Classified in accord with Directive (AT) Numbered 1272/2008

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 to clean air. If any symptom continues, get medial aid.

Contact with skin:

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

Contact with eye(s):

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 aider:

Use personal protective equipment in sufficient amounts.

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

There is not any different detail, except the ones defined before.

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

After checking the patient's clinical picture, doctor's decision is applied.

5.FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

This product does not burn before its water evaporates. Evaporation balance may ignite. In this case, a proper fire engine can be used.

5.2 Special hazards arising from the substance or mixture:

Under fire conditions, the product may generate carbon dioxides (CO_x) and nitrogen oxides (NO_x). If it spreads around, flow of fire extinguishing water into sewage system should be prevented.



5.3 Advice for Firefighters:

Special precautions and protective equipment for firefighters:

In case of fire, the personnel who do not take necessary training should be alienated. Fire brigade 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

In case of small amounts of pouring, for example less than 10 liters, enable the cleaning to be done by only trained personnel. Use individual protective equipment which is suggested in Chapter 8 (Exposure Controls/Individual Protection). Until the end of cleaning process, restrict access to the area properly. Pouring in large amounts should be cleaned by only emergency response team. Inform emergency personnel immediately for pouring more than 10 liters. Use individual protective equipment which is suggested 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 cleaning is done by only trained personnel. Keep emergency equipment (fire, pouring, leakage, etc.) ready. Inform related personel from government, occupational health and safety and environment.

ADVICE FOR EMERGENCY RESPONDERS

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

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

Wear proper individual protection equipment. Prevent contact with skin, eyes and clothes. Enable sufficient ventilation during usage. Keep the product in its original pot or in approved packages. Store it in compliance 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:

Store in suitable labeled containers. Store the containers tightly closed.

Suitable packaging materials:

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

Unsuitable packaging materials:

Brass, Carbon Steel, Plexiglass.

7.3 Specific end uses:

Specific use(s) : Membrane cleaning compound

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

OCCUPATIONAL EXPOSURE LIMITS

This product does not contain any substance that has an established exposure limit.

8.2 Exposure controls:

Ventilation:

General ventilation is suggested. In order to control the emissions close to the source, local ventilation aiming ejection is suggested. Laboratory samples should be used in a smoke cap. Enable indoors to be ventilated mechanically.

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.



Protecting the skin:

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. Degradation period is not determined for mixture, consult with PPE manufacturer. You may find effective European Standards in EN 374. Wearing jump suit is recommended while working with this product. You may find effective European Standards in EN ISO 20345.

Protection for respiratory system:

There is not any exposure limit determined for this product or its components. Nalco recommends the use of a filtered type half mask or airfed respirator. Appropriate filter material depends on the amount and type of the 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	A Straw color
Odour	None
Odour Threshold	No data available
pH (100%)	3,7
Freezing /Melting/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	No data available
Vapor Density	No data available
Relative Density	1.18 (25 °C)
Density	No data available
Solubility in Water	Absolute



Octanol/Water Coefficient (log Kow)	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No applicable
Oxidizing Properties	No applicable

9.2 Other information:

Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Stable under normal conditions.

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 any 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	Causes serious eye irritation.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Genotoxicity assessment	Contains no ingredient listed as a mutagen
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	
STOT - single exposure	Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration toxicity	No aspiration toxicity classification

12.ECOLOGICAL INFORMATION

12.1 Toxicity:

The following results are for the product.

Product:

Toxicity to fish	LC50 LC50: 320 mg/l, 96 hrs , Rainbow Trout, Test material: product NOEC: 150mg/l, 96 hrs, Rainbow Trout, Test material: product
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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
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Ecotoxicology Assessment:

Acute aquatic toxicity	Not expected to be harmful to aquatic organisms.
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Chronic aquatic toxicity	Not expected to demonstrate chronic toxicity to aquatic organisms.
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12.2 Persistence and degradability:

Product:

Biodegradability	Organic part of this mixture is expected to easily undergo biodegradation.
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12.3 Bioaccumulative potential:

Product:

Bioaccumulation	This mixture is expected to accumulate biologically.
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12.4 Mobility in soil:

Product:

Environmental fate and pathway	This material can dissolve in the water and it is not expected to stay in the water.
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12.5 Results of PBT and vPvB assessment:

Product:



Assessment

This mixture This preparate does not contain any permanent content which causes bioaccumulation or is accepted as toxic (PBT). This preparate contains neither very permanent substances nor substances accepted to cause bioaccumulation (vPvB).

12.6 Other adverse effects:

Product:

Chemical oxygen demand (COD)	360.000 mg/lit
Other harmful effects related with ecology	Any adverse effect is not expected.

13. DISPOSAL CONSIDERATIONS

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations.

13.1 Waste treatment methods:

Communicate with an approved waste carrier to remove the materials with which the mixture contacts and which are collected as waste. Waste of the mixture that formed in any way is a potential pollutant and its mixing with urban sewage, soil and streams is not proper. Remove the waste in an approved waste burner or in a waste treatment facility in accord with effective directives. Don't throw them to local sewage and don't mix them with domestic waste. Empty containers should be considered for recycling or they should be removed by a licensed carrier having proper features.

EUROPEAN WASTE CODE:

16 03 04 – GROUPS OUT OF SPECIFICATION AND UNUSED PRODUCTS – Inorganic waste except the ones specified in 16 03 03. When this product is used in any process afterwards, the most appropriate European Waste Code should be determined and 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:	Not applicable
14.2 UN proper shipping name:	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
14.3 Transport Hazard class(es):	Not applicable
14.4 Packing group:	Not applicable
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Not applicable



AIR TRANSPORT (ICAO/IATA)

14.1 UN number:	Not applicable
14.2 UN proper shipping name:	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
14.3 Transport Hazard class(es):	Not applicable
14.4 Packing group:	Not applicable
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Not applicable

SEA TRANSPORT (IMDG/IMO)

14.1 UN number:	Not applicable
14.2 UN proper shipping name:	PRODUCT IS NOT REGULATED DURING TRANSPORTATION
14.3 Transport Hazard class(es):	Not applicable
14.4 Packing group:	Not applicable
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Not applicable
14.7 Transportation in large	Not applicable

**Annex II of MARPOL 73/78 and the
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.



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MATERIAL SAFETY DATA SHEET

References:

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.

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