



AQM 35

MATERIAL SAFETY DATA SHEET

1. DEFINITION OF MATERIAL AND COMPANY

1.1 Product Name: AQM 35

1.2 Application: Anti-scalant for Reverse Osmosis systems

1.3 Company Information:

Headquarters:

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

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1.4 Emergency telephone: 00 90 212 886 91 26

2. DEFINITION OF HAZARD

2.1 Classification of the substance or product:

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

This product is not classified in accordance with Regulation (EC) No. 1272/2008

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

This product is not classified as hazardous according to 67/548/548 EEC 1999/45/EC

2.2 Label information and records:

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

Please consider the below prevention explanations although this product is not classified.

Precaution explanations:

P202 Do not use the product until reading and understanding all safety measures.

P262 Do not contaminate eye, skin or clothing with the product.

P202 Wear protective gloves/clothing/eye protection/face protection

P314 P314 Receive medical attention/advice if you do not feel good

Additional information:

EUH210 Safety data sheet is available on request

2.3 Other hazards:

No known hazards.



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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Solid matter:

No data available.

3.2 Mixture:

This product is not classified in accordance with Regulation (EC) No. 1272/2008:

4. FIRST AID MEASURES

4.1 Definition of required first aid measures:

In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency.

If inhaled:

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

In case of eye contact:

Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

If swallowed:

Receive medical attention immediately. Check the patient consciousness, if conscious give water. Never give anything by mouth to an unconscious person. Check breathing and pulse, apply artificial respiration if required.

Protection of first aiders:

Use sufficient personal protection equipment.

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

No information available.

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

Decision of the doctor will be applied upon checking patient's clinical condition

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

This product does not burn until all water in its structure evaporates. The remainder of the evaporation may burn. In this case a suitable extinguishing media can be used.

5.2 Special hazards arising from the substance or mixture:

The product may constitute carbon oxides (COx), nitrogen oxides (NOx), phosphorus oxides (POx) in the event of fire. Do not allow run-off from fire fighting to enter drains or water courses

5.3 Advice for Firefighters:

Special precautions and protective equipment for firefighters:



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Officials who do not have the required training should be kept away in case of fire. Firefighting team should wear full-face, positive pressure, closed system mask and protective clothing.

6.ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away the officials who do not have the required training in case of fire. Resort to emergency team: Restrict access to the area until spillage is cleaned. Provide ventilation where material is spilled. Definitely use personal protection equipment during these procedures.

6.2 Environmental precautions:

Try to prevent the spreading, leakage and entering of the spilled material to the drains or water courses. Inform authorities to prevent environmental pollution

6.3 Methods and materials for containment and cleaning:

Spillages in small areas:

Collect the spillages by absorbing it with an absorbent. Keep in suitable, closed containers for disposal. Wash the spilt area.

Spillages in large areas:

Absorb the product with an absorbent in large pits in the spilt area. Then wash the area. Put these waste materials into drums or containers. And then have them eliminated by a certified waste remover.

6.4 Reference to other sections:

For emergency information see section 1. For personal protection see section 8. For elimination of waste material see section 13.

7.HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear suitable personal protection equipment. Avoid contact with skin and eye. Provide adequate ventilation during use. Keep the product in its original container or in certified packaging. Store according to local legislations. Keep away from food and drinks. Close the opened package of the product tightly and provide impermeability. Never eat while using it and working. Do not drink or smoke. Eye wash station and safety shower should be available in the working environment. If it splashes on the clothing, remove the clothing and wash the effected part thoroughly.

7.2 Conditions for safe storage, including any incompatibilities:

Storage conditions:

Keep in containers with suitable labels. Keep container tightly closed.

Suitable packaging materials:

PVC, Polypropylene, Polyethylene, Stainless Steel 304, HDPE (high density polyethylene), Epoxy phenolic resin, 100% phenolic



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resin primer.

Unsuitable packaging materials:

Brass, Buna -N, Neoprene, EPDM, Polyurethane, Chlorosulfone polyethylene rubber, Floroelastomer.

7.3 Specific end uses:

Anti-scalant for Reverse Osmosis systems

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

This product does not contain any substance with a specified exposure limit.

8.2 Exposure controls:

Ventilation:

Provide ventilation of closed places with exhaust ventilation system. Personal protection equipment:

General advice:

Safety glasses, equipment protecting the arms and body are recommended minimum. The visitors should wear safety glasses with side protection even in the places where this product is used.

Eye protection:

Safety glasses with side protection is recommended while working with this product.

Skin protection:

Gloves enduring to chemical substances should be used when working with this product.

Respiratory protection:

No limit is specified for this product and ingredient substances. Filter half mask is recommended. Apply respiratory safety program which passed maintenance and inspection stages of the compliance test although selection of suitable filtering material is subject to the amount of the chemical used.

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
Color	Colorless to light yellow
Odour	Ammoniac-like
Odour Threshold	No data available
pH (100%)	10-11,5



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Freezing Point	- 15 °C
Flash point	> 100 °C
Vapor Pressure	No data available.
Vapor density	No data available.
Relative density	1.4
Density	No data available.
Solubility in water	Soluble
Viscosity	15 cps(25 °C)
Ignition temperature	No data available.

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:

Hazardous polymerization will not occur.

10.4 Conditions to avoid:

Very high and low temperatures.

10.5 Incompatible materials:

incompatible with strong oxidants and strong acids.

10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide, nitrogen and phosphorus oxides are released during decomposition of the product because of fire.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Product:

Oral toxicity	No known important effect or critical hazards.
Inhalation	No known important effect or critical hazards.
Skin	No known important effect or critical hazards.



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Eyes	No known important effect or critical hazards.
Carcinologic effects	No known important effect or critical hazards.
Fertility effect	No known important effect or critical hazards.
Specific organ toxicity	No known important effect or critical hazards.
Toxicity through inhalation	No known important effect or critical hazards.

12.ECOLOGICAL INFORMATION

12.1 Toxicity:

The following results are for the product.

Product:

Toxicity to fish	LC50 : >330 mg/l, 96 hrs, Rainbow Trout, Testing Material: Similar product LC50 : 8,132 mg/l, 96 hrs, Sheep Head Carp, Testing material: Similar product C50 : >330 mg/l, 96 hrs, Bluefin Sunfish, Testing material: Similar product C50 : 1,212 mg/l, 96 hrs, Channel Catfish, Testing material: Similar product C50 : >330 mg/l, 96 hrs, Rainbow Trout, Testing material: Similar product C50 : >330 mg/l, 96 hrs, Bluefin Sunfish, Testing material: Similar product
Toxicity to Daphnia And other aquatic invertebrates	EC50 : 297 mg/l, 48 hrs, Daphnia Magna, Testing material: Similar product EC50 : 7,870 mg/l, 96 hrs, Shrimp, Testing material: Similar product EC50 : 297 mg/l, 48 hrs, Daphnia Magna, Testing material: Active substance
Toxicity to Daphnia and other aquatic invertebrates (Chronic intoxicity)	LOEC : 50 mg/l, 28 days, Daphnia Magna, 3 Brood , Testing material: Similar product NOEC : 25 mg/l, 28 days, Daphnia Magna, 3 Brood, Testing material : Similar product
Ecotoxicology Assessment:	
Acute aquatic toxicity Chronic water toxicity	It is expected to not be hazardous to aquatic organisms: Chronic



toxicity is unlikely against aquatic organisms.

12.2 Persistence and degradability:

Product :

Biodegradability

The organic part of this mixture is expected for biodegradability.

12.3 Bioaccumulative potential:

Product :

Bioaccumulation

Bioaccumulation is not expected.

12.4 Mobility in soil:

Product:

Land - water distribution

No data available.

12.5 Results of PBT and vPvB assessment:

Product :

PBT

None

vPvB

Not available.

12.6 Other adverse effects:

Chemical oxygen demand (COD)

240 mg/g

Other hazardous effects regarding ecology

None

13. DISPOSAL CONSIDERATIONS

In the event this mixture becomes waste, the end user will define European Waste Catalogue code compatible to the product and give this code to the product. Use authorized waste removal companies only. Ensure to act in compliance to EC, National and Local Regulations.

13.1 Waste treatment methods:

Contact a certified waste remover for the elimination of the materials which is contaminated with the mixture and collected as waste. Any waste of the mixture is a potential waste and it is not suitable to mix into drains, land and water courses. Eliminate the wastes in a certified waste incinerator or waste treatment facility compatible to existing regulations. Do not dispose to local drains and not mix with domestic wastes. Empty containers can be used in recycling or should be eliminated by a licensed contractor with the qualifications.

Europeans Waste Code :

It is the end user's duty to give waste codes to the wastes compatible to European Waste Catalogue in the direction of related European Union Directives.



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14. TRANSPORT INFORMATION

Contact a certified waste remover for the elimination of the materials which is contaminated with the mixture and collected as waste. Any waste of the mixture is a potential waste and it is not suitable to mix into drains, land and water courses. Eliminate the wastes in a certified waste incinerator or waste treatment facility compatible to existing regulations. Do not dispose to local drains and not mix with domestic wastes. Empty containers can be used in recycling or should be eliminated by a licensed contractor with the qualifications.

Europeans Waste Code :

It is the end user’s duty to give waste codes to the wastes compatible to European Waste Catalogue in the direction of related European Union Directives.

LAND TRANSPORT

14.1 UN number:	Not dangerous goods
14.2 UN proper shipping name:	NO PRECAUTION OR ARRANGEMENT FOR THE TRANSPORTATION OF THE PRODUCT
14.3 Transport Hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Not dangerous goods

AIR TRANSPORT (ICAO/IATA)

14.1 UN number:	Not dangerous goods
14.2 UN proper shipping name:	NO PRECAUTION OR ARRANGEMENT FOR THE TRANSPORTATION OF THE PRODUCT
14.3 Transport Hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Not dangerous goods

SEA TRANSPORT (IMDG/IMO)

14.1 UN number:	Not dangerous goods
14.2 UN proper shipping name:	NO PRECAUTION OR ARRANGEMENT FOR THE TRANSPORTATION OF THE PRODUCT
14.3 Transport Hazard class(es):	Not dangerous goods
14.4 Packing group:	Not dangerous goods
14.5 Environmental hazards:	No
14.6 Special precautions for user:	Not dangerous goods



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14.7 Transportation in large

Not dangerous goods

amounts according to 2nd attachment of Marpol 73/78 and IBC code.

15.REGULATORY INFORMATION

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

No P and H inscription as it is not classified as hazardous.

INTERNATIONAL CHEMICAL SUPERVISION LAWS

Mempa declares that registration, evaluation, authorization (REACH) of the chemicals complies to the EU Regulations fully. Thus we are registering all chemicals used in our product, imported and exported by us.

15.2 Chemical Risk Assessment:

Not required

16.OTHER INFORMATION

This safety data sheet contains all regulatory information regarding health and safety. Safety data sheet is based on existing data on the date the data sheet is issued. Safe working conditions and training programs for compatible uses should be evaluated in all uses of the product. The arrangement of these programs and activities is under the responsibility of the user. The regulator may amend this safety data sheet if required.

References:

This safety data sheet is arranged with the remarks of an expert and in consideration of European Directives ((EC) No. 1907/2006, (EC) No. 1272/2008, 67/548/EEC, 1999/45/EC included), supplier data, internet, ESIS, IUCLID, ERICards, official regulatory data outside Europe and other data sources.

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