

Material Safety Data Sheet
According to 91/155 EEC(2001/58 EC)

Printing date: 09.09.2005

Reviewed on: 09.09.2005

1 Identification of substance:**Product details:**

- **Trade name:** ATBS sodium salt solution (50 - 58 %)
- **Application of the substance / the preparation** Copolymer

- **Supplier/Manufacturer:** ADAKEM KİMYA
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- **Information department:** ADAKEM KİMYA

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- **Emergency information:**

National Poisons Information Centre Tel.: 112

2 Composition/Data on components:

- **Chemical characterization**
- **Description:**
watery solution of the sodium salt of the following sulphonic acid

Dangerous components:

5165-97-9 ATBS Natriumsalz	50-60 %
Xn; R 22-41	
EINECS: 225-948-4	

- **Additional information**

For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:** not applicable
- **Information pertaining to particular dangers for man and environment:**
 - not applicable
- **Classification system:**
The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

4 First aid measures

- **General information:**
Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

(Contd. on page 2)

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(Contd. of page 1)

- **After swallowing:**

Rinse out mouth and then drink plenty of water.
If symptoms occur or after swallowing of larger quantities consult a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Dangerous decomposition product see chapter 10: stability and reactivity

- **Protective equipment:**

Wear self-contained respiratory protective device.

- **Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.

- **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

* **7 Handling and storage**

- **Handling**

- **Information for safe handling:**

Keep receptacles tightly sealed.
Prevent formation of aerosols.
Avoid contact with eyes and skin.

- **Information about protection against explosions and fires:**

No special measures required.

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store container tightly sealed at a cool and dry place with sufficient ventilation.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.
Store away from feed.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.
Protect from heat and direct sunlight.

- **Recommended storage temperature:** 5-30° C

- **Storage class** 12 Non combustible liquids

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* **8 Exposure controls and personal protection**

- **Additional information about design of technical systems:**
No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures should be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
- **Breathing equipment:**
Use suitable respiratory protective device in case of insufficient ventilation.
Short term filter device:
Filter A
- **Protection of hands:**
Protective gloves.
To avoid skin problems reduce the wearing of gloves to the required minimum.
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:**
The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

• **General Information**

- **Form:** Fluid
- **Colour:**
Transparent
Yellowish
Light yellow
- **Odour:** Characteristic

• **Change in condition:**

- **Melting point/Melting range:** undetermined
- **Boiling point/Boiling range:** undetermined

- **Flash point:** not applicable

- **Self igniting:** Product is not self-igniting.

- **Danger of explosion:**
Product does not present an

(Contd. on page 4)

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(Contd. of page 3)

explosion hazard.

- **Vapour pressure:** at 20 ° C 23 hPa
- **Density:** at 20 ° C 1.2 g/cm³
- **Solubility in / Miscibility with**
- **Water:** Fully miscible
- **pH-value:** at 20 ° C 8-10
- **Additional information:**
Monomer content: 50% ATBS: 49-51% (calculated)
55% ATBS: 54,5-55,5% (calculated)
58% ATBS: 57,0-59,0% (calculated)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Conditions to be avoided: see chapter 7
- **Materials to be avoided:** Strong oxidants
- **Dangerous reactions:** No dangerous reactions known
- **Dangerous products of decomposition:**
In the case of fire or at high temperatures the formation of the following decomposition products is possible.
Irritant gases/vapours
Nitrogen oxides (NOx)
Sulphur oxides (SOx)

11 Toxicological information

- **Acute toxicity:**
LD/LC50 values that are relevant for classification:
Oral: LD50: > 5000 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** May cause irritation to the skin.
- **on the eye:** Light irritation possible
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** It is not readily biodegradable.
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
According to appendix 4 of VwVwS dated 17.05.1999 (German regulation) Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow
(Contd. on page 5)

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(Contd. of page 4)

product to reach sewage system.

Disposal according to instructions of local authorities.

- **European waste catalogue:**
 - 07 00 00: Wastes from organic chemical processes
 - 07 06 00: waste from the MFSU of fats, grease, soaps, detergents
disinfectants and cosmetics
 - 07 06 08: other still bottoms and reaction residues
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** No hazardous good according to the regulation.
- **Maritime transport IMDG:**
- **IMDG Class:** No hazardous good according to the regulation.
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** No hazardous good according to the regulation.

15 Regulations

- **Markings according to EC guidelines:**
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV). Observe the general safety regulations when handling chemicals
- **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.
- **National regulations**
- **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for amendments:** General revision
- **Relevant R-phrases:**
 - 22 Harmful if swallowed.
 - 41 Risk of serious damage to eyes.
- *** Data compared to the previous version altered.**
Changes have been made to chapters marked with a *, as compared to the previous version.