

## Material Safety Data Sheet

<b>Manufacturer :</b>	ARCHEM Co. O.S.B. İkitelli San. Sit. B-2 Blok No:4 İkitelli / ISTANBUL TURKEY
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### 1. Identification of the preparation.

	<b>CAT NO.</b>
<b>ALAT 5*50</b>	<b>A2280</b>
<b>ALAT 5*25</b>	<b>A2281</b>
<b>ALAT BULK</b>	<b>A2280B</b>

### 2. Composition / information on components.

2-Composition / information on components:			
Dangerous components:			
1-MG; 1-REAGENT			
potassium hydroxide		Contains: 0,5 - 2%	
CAS number:	1310-58-3		
WE number:	215-181-3		
Index number:	019-002-00-8	Harmfulness: C; Phrases: R 35; S (1/2) 26-37/39-45	
sodium azide		Contains: < 0,1%	
CAS number:	26628-22-8		
WE number:	247-852-1;		
Index number:	011-004-00-7	Harmfulness: T+; N; Phrases: R 28-32-50/53; S 28-45-60-61	
xylidiline blue		Contains: < 0,25%	
CAS number:	14936-97-1		
WE number:	239-012-8		
Index number: -		Harmfulness: Xi; Phrases: R 36/37/38; S ( 26	
Triton X-100		Contains: < 0,25%	
CAS number:	9002-93-1		
WE number:			
Index number: -		Harmfulness: Xn; Phrases: R 22-41 S:(24-26-39)	
2-STANDARD			
Benzoic acid		Contains: 0,05%-1%	
CAS number:	65-85-0		
WE number:	200-618-2		

Index	Harmfulness: Xn S: 24-; Phrases: R 22-36;
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### 3. Hazards Identification.

**1-MG; 1-REAGENT**

**Irritating**

**Irritating to eyes and skin**

### 4. First-Aid Measures.

**After inhalation:** fresh air. Call in physician.

**After skin contact:** wash off with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing.

**After eye contact:** rinse with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.

**After swallowing:** make victim drink plenty of water. Avoid vomiting (risk of perforation!). Immediately call in physician. Do not attempt to neutralize.

### 5. Fire Fighting Measures:

***Appropriate smothering agents:***

Suitable for materials stored in immediate vicinity.

The preparation is not a flammable substance.

### 6. Accidental Release Measures:

***Preventive measures related to the staff:***

Avoid contamination with the preparation.

***Cleaning /absorption procedures :***

Collect small quantities with the use of an absorbing agent, rinse with large amount of water if necessary.

### 7. Handling and Storage:

***Procedures:***

In accordance with the norms generally accepted for chemicals in laboratories.

***Storage:***

Hermetically closed. In temperature from +2°C do +8 °C.

### 8. Exposure Controls/ Personal Protection:

***Appropriate control parameter:***

See Turkish regulations.

Potassium hydroxide: NDS – 0,5 mg/m<sup>3</sup>, NDSC<sub>h</sub> – 1 mg/m<sup>3</sup>.

Sodium azide: NDS – 0,1 mg/m<sup>3</sup>, NDSC<sub>h</sub> – 0,3 mg/m<sup>3</sup>. Risk of skin absorption.

***Personal protective equipment:***

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Respiratory passages:** Apply in rooms with efficiently working ventilation, avoid inhaling product mists, use respiratory tract-protective agents

**Eyes:** avoid direct contact of the product with eyes use glasses.

**Hands:** avoid direct contact of the product with skin, immediately take off clothes soiled with the preparation and wash contaminated skin with soapy water, use

personal protective, clothing and protective gloves: In full contact: In splash contact:

Glove material: nitrile rubber Glove material: nitrile rubber

Layer thickness: 0,11 mm Layer thickness: 0,11 mm

Breakthrough time: > 480 Min. Breakthrough time: > 480 Min.

**Industrial hygiene:** you must not have meals, drink, or smoke tobacco while working with the preparation, except in places designed for that purpose. Wash your hands after work with the substance carefully with soapy water. Apply skin-protective barrier cream. Breakthrough time: > 480 Min. Breakthrough time: > 480 Min.

**Industrial hygiene:** you must not have meals, drink, or smoke tobacco while working with the preparation, except in places designed for that purpose. Wash your hands after work with the substance carefully with soapy water. Apply skin-protective barrier cream.

## 9. Physical and Chemical Properties.

	1-MG	1-MG
Form:	clear solution	clear solution
Colour:	dark blue	dark blue
Odour:	odourless	odourless
Vapour pressure:	no data available	no data available
Boiling temperature:	no data available	no data available
Melting temperature:	no data available	no data available
Ignition temperature:	incombustible	incombustible
Flammability:	incombustible	incombustible
Density:	1,010 g/cm <sup>3</sup> 20 °C	1,010 g/cm <sup>3</sup> 20 °C
pH:	11,5 ( 25 °C)	11,5 ( 25 °C)

## 10. Stability and Reactivity:

### **Conditions that should be avoided:**

The preparation is stable in conditions provided by the manufacturer.

### **Substances that should be avoided:**

Metals, light metals: Formed could be: hydrogen (risk of explosion!); ammonium compounds, organic combustible substances, alkaline earth metals, halogens, halogen-halogen compounds, halogenated hydrocarbons, nonmetallic oxyhalides, halogen oxides, organic nitro compounds, phosphorus, nonmetallic oxides, hydrocarbons, anhydrides, strong acids.

### **Dangerous decomposition products:**

In the case of fire – nitrose gases.

### **Further information:**

A stabilized product.

## 11. Toxicological Information:

**No data for the preparation. The preparation toxicity evaluation is based on evaluation of the toxicity of particular components.**

### **potassium hydroxide**

#### **Acute toxicity:**

LD50 (oral, rat): 273 mg/kg

Specific symptoms in animal studies:

Eye irritation test (rabbit): burns.

Skin irritation test (rabbit): burns.

#### **Subacute to chronic toxicity:**

Sensitization:

Sensitization test (guinea pig): no skin-sensitizing effect.

Bacterial mutagenicity: Escherichia coli; negative.

***Further toxicological information:***

After inhalation: burns of mucous membranes.

After skin contact: burns.

After eye contact: burns., risk of blindness!

After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

***Further data:***

The product should be handled with the care usual when dealing with chemicals.

**12. Ecological Information:**

**No data for the preparation. The evaluation was performed on the basis of the properties of its components.**

**potassium hydroxide**

***Biologic degradation:***

Methods for the determination of biodegradability are not applicable to inorganic substances.

***Behavior in environmental compartments:***

Concentration in organisms is not to be expected.

***Ecotoxic effects:***

Biological effects: harmful effect on aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.

***Fish toxicity:***

Gambusia affinis LC50: 80 mg/l/96 h.

***Further ecologic data:***

Do not allow to enter waters, waste water, or soil.

**13. Disposal Considerations:**

***Product:***

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose of special waste.

***Packing:***

Remove in accordance with official regulations. Treat contaminated packages in the same way as the substance itself. If the regulations do not provide otherwise, non-contaminated packages can be treated like household waste or forward them to be utilized.

**14. Transportation Information:**

The product is not subject to transport regulations.

**15. Regulatory Information:**

**Material Safety Data Sheet was prepared in accordance with:**

The EC Directive Nr UE2001/58/WE, the EC Directive Nr 1999/45/EG, the EC Directive 67/548 EEC, EC Directive 88/379/EEC or the EC Directive 91/155/EEC (Dangerous Product Regulations incl. EC Guidelines).  
See Turkish regulations.

**Marking:****Irritating**

Contains potassium hydroxide

**Xi – Irritating;**

*Risk phrases (R):*

**R 36/38 – Irritating to eyes and skin.**

*Safety phrases (S):*

**S 26-28-36/37/39-45 –In case of contact witheyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/face protection In case of accident**

**16. Other Information.**

**R 36/38 – Irritating to eyes and skin.**

The foregoing information is based on the present state of our knowledge. It characterizes the product with respect to the appropriate safety measures. They do not guarantee the properties of the product. We do not take responsibility for damage and losses that may result from inappropriate use of the preparation.  
Reason of changes: General updating.

*The foregoing safety chart prepared in electronic version is legally valid without sign manual.*