

## Material Safety Data Sheet

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### 1. Identification of the preparation.

	<b>CAT NO.</b>
<b>ALAT 5*100</b>	<b>A2340</b>
<b>ALAT 5*50</b>	<b>A2341</b>
<b>ALAT 5*25</b>	<b>A2342</b>
<b>ALAT BULK</b>	<b>A2340B</b>

### 2. Composition / information on components.

2. Composition / Information on components:

1-UA; 1-REAGENT			
sodium azide		Contains: < 0,1%	
CAS number:	26628-22-8		
EC number:	247-852-1;		
Index number:	011-004-00-7	Harmfulness: T+; N; Phrases: R 28-32-50/53; S 28-45-60-61	
sodium hydroxide		Contains: < 0,9% pH = 7,0	
CAS number:	1310-73-2		
EC number:	215-185-5		
Index number:	011-002-00-6	Harmfulness: C; Phrases: R 35; S (1/2) 26-37/39-45	
4-aminoantypyrine		Contains: < 0,03%	
CAS number:	83-07-8		
EC number:	201-452-3		
Index number: -		Harmfulness: Xn; Phrases: R 22-36/37/38; S 26-36	
Triton X-100		Contains: < 0,5%	
CAS number:	9002-93-1		
EC number: -			
Index number: -		Harmfulness: Xn; Phrases: R 22-41 S:(24-26-39)	
2-UA; 2-REAGENT			
sodium azide		Contains: < 0,1%	
CAS number:	26628-22-8		
EC number:	247-852-1;		
Index number:	011-004-00-7	Harmfulness: T+; N; Phrases: R 28-32-50/53; S 28-45-60-61	
sodium hydroxide		Contains: < 0,4%	
CAS number:	1310-73-2		
EC number:	215-185-5		
Index number:	011-002-00-6	Harmfulness: C; Phrases: R 35; S (1/2) 26-37/39-45	

<b>Triton X-100</b>		Contains: < 0,5%	
CAS number		: 9002-93-1	
EC number:-			
Index number: -		Harmfulness: Xn; Phrases: R 22-41 S:(24-26-39)	
<b>3-STANDARD</b>			
<b>sodium azide</b>		Contains: < 0,1%	
CAS number:	26628-22-8		
EC number:	247-852-1;		
Index number:	011-004-00-7	Harmfulness: T+; N; Phrases: R 28-32-50/53; S 28-45-60-61	

### 3. Hazards Identification.

**1-UA, 1-RERAGENT**

**Irritating Irritating to eyes and**

### 4. First-Aid Measures.

**After exposure by respiratory passages:** fresh air.

**After skin contamination:** wash off with large amount of water. Take off the contaminated clothing.

**After contamination of eyes:** rinse with large amount of water.

**After consumption:** give the sufferer a large amount of water to drink.

Evoked vomiting. Administer activated charcoal. If the sufferer feels unwell, consult a doctor.

### 5. Fire Fighting Measures:

**Suitable extinguishing media:**

In adaptation to materials stored in the immediate neighbourhood. Water, CO<sub>2</sub> powder, foam. During fire thermal decomposition of the substances contained in the preparation may occur. As a result of that toxic smokes and gases may be formed, which contain in: nitroses gases. carbon monoxide, carbon dioxide, nitrogen. The rescuers must be equipped with protective clothing and respiratory tract isolating equipment, irrespective of ambient air.

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 Polish regulations.

sodium hydroxide: NDS – 0,5 mg/m<sup>3</sup>, NDSch – 1,0 mg/m<sup>3</sup>.

sodium azide: NDS – 0,1 mg/m<sup>3</sup>, NDSch – 0,3 mg/m<sup>3</sup>. Risk of skin absorption.

**Personal control equipment:**

Respiratory passages: not required

Eyes: required (protective glasses).

Hands: required (protective gloves)

**Industrial hygiene:**

Change contaminated clothing. Wash your hands after work with the substance.

## 9. Physical and Chemical Properties.

Form:	1-UA ; 1-REAGENT	2-UA; 2-REAGENT	3-STANDARD
Colour:	clear solution	clear solution	clear solution
Odour:	colourless to light yellow	light opalescence	colourless
Vapour pressure:	odourless	odourless	odourless
Boiling temperature:	no data available	no data available	no data available
Melting temperature:	no data available	no data available	no data available
Ignition temperature:	no data available	no data available	no data available
Flammability:	incombustible	incombustible	incombustible
Density:	incombustible	incombustible	incombustible
pH:	1,01 g/cm <sup>3</sup> (20 °C) 7,0 (25 °C)	1,011 g/cm <sup>3</sup> (20 °C) 7,0 (25 °C)	1,03 g/cm <sup>3</sup> (20 °C) 7,2 (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:*

Heavy metals, metal salts, acids..

### *Dangerous decomposition products:*

In the case of fire – nitrose gases. carbon monoxide, carbon dioxide,

*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.**

### **sodium hydroxide**

#### *Acute toxicity:*

Quantitative data on the toxicity of this product are not available.

Specific symptoms in animal studies:

Eye irritation test (rabbit): burns.

Skin irritation test (rabbit): burns.

#### *Subacute to chronic toxicity:*

Mutagenicity (mammal cell test): micronucleus negative.

Bacterial mutagenicity: Escherichia coli; negative.

Bacterial mutagenicity: Ames test: negative.

No teratogenic effect in animal experiments.

#### *Further toxicological information:*

After inhalation: burns of mucous membranes.

After skin contact: burns

After eye contact: burns, risk of blindness!

After swallowing: burns in mouth, throat, 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.**

### **sodium 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:**

Onchorhynchus mykiss LC<sub>50</sub>: 45,4 mg/l/96 h.(in hard water).

L. macrochirus LC<sub>50</sub>: 99 mg/l/48 h

**Daphnia toxicity:**

Daphnia magna EC<sub>50</sub>: 76 mg/l/24 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:** Contain sodium hydroxide

**Xi – Irritating;**

*Risk phrases (R)*

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

*Safety phrases (S):*

**S 26-28-37/39-45 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**

### 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 updateing.

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