

Material Safety Data Sheet

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| Manufacturer : | 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.

| | CAT NO. |
|------------|---------|
| ALAT 5*100 | A2020 |
| ALAT 5*50 | A2021 |
| ALAT 5*25 | A2022 |
| ALAT BULK | A2020B |

2. Composition / information on components.

| Dangerous components: | | | |
|---|--------------|---|--|
| 1-ALP; 1-REAGENT | | | |
| sodium azide | | Contains: < 0,9% | |
| CAS number: | 26628-22-8 | | |
| EC number: | 247-852-1; | | |
| Index number: | 011-004-00-7 | Harmfulness: T+; Phrases: R 20/21/22-32; S: (1/2) 28-45 | |
| AMP 13% (2-amino-2-metylopropanol) | | Contains: < 4,0% | |
| CAS number: | 124-68-5 | | |
| EC number: | 204-709-8 | | |
| Index number: | 603-070-00-6 | Harmfulness: C; Phrases: Xi: R 36/38-52/53; S 61 | |
| 2-ALP; 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+; Phrases: R 20/21/22-32; S: (1/2) 28-45 | |
| hydrochloric acid | | Contains: < 0,35% | |

| | | | |
|---|-------------------|------------------|------------------------------------|
| CAS number: | 7647-01-0 | | |
| EC number: | 231-595-7 | | |
| Index number: | 017-002-01-32(37) | Harmfulness: C | Phrases: R 34-37; S 26-36/37/39-45 |
| AMP 13% (2-amino-2-metylopropanol) | | Contains: < 4,8% | |
| CAS number: | 124-68-5 | | |
| EC number: | 204-709-8 | | |
| Index number: | 603-070-00-6 | Harmfulness: C; | Phrases: Xi: R 36/38-52/53; S 61 |

3. Hazards Identification.

The preparation is not regarded as dangerous.

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.

Evoke 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, CO₂ 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 . a nitrogen oxides, hydrogen chloride. 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 Turkish regulations.

sodium azide: NDS – 0,1 mg/m³, NDSC_h – 0,3 mg/m³. Risk of skin absorption.

Hydrogen chloride: NDS – 5 mg/m³, NDSCh – 10 mg/m³.

Personal control equipment:

Respiratory passages: not required

Eyes: not required

Hands: required (protective gloves)

Industrial hygiene:

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

9. Physical and Chemical Properties.

| | | |
|-----------------------|-----------------------------------|-----------------------------------|
| | 1-ALP | 2-ALP |
| | 1-REAGENT | 2-REAGENT |
| Form: | clear solution | clear solution |
| Colour: | colourless | yellow |
| Odour: | slight smell of amine | 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: | 1,001 g/cm ³ (20 °C) | 1,002 g/cm ³ (20 °C) |
| pH: | 10,45 (25 °C) | 9,1 (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, hydrogen chloride

Further information:

A stabilized product.

11. Toxicological Information:

Acute toxicity:

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

Further toxicological information:

Toxic activity should not be expected if you use this product appropriately.

Further data:

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

12. Ecological Information:

Ecotoxic activity:

Quantitative data on the ecological effect of this product are not available

Further ecological data: Ecological problems should not be expected if you use and apply the product appropriately.

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:

Not applicable.

16. Other Information.

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.