



auto clean & care

ΒΟΥΛΗΣ ΧΗΜΙΚΑ
2^ο ΧΑΜ ΝΑΟΥΣΑ-Σ.Σ.Ν
ΝΑΟΥΣΑ ΗΜΑΘΙΑΣ

ΤΗΦ: 0030-23320-26446/25047
FAX: 0030-23320-28249
www.voulis.com
info@voulis.com

ALAS





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TECHNICAL DATA

Product:	ALAS
Code:	2.04.010
Intrastat Code:	3402.20.90
Description:	Fights against salt residues in the coils and closed water circuits. It does not affect metal parts. Use it solid in closed water circuit procedure.
Application:	Use it solid in circuit procedure
Composition:	Non ionics <5% but >15%
Appearance:	pale yellow
Characteristics:	It does not affect metals Excellent salt fight. Reuse the product until repletion
Test:	Place salt residues in a glass and watch the results
Other applications:	closed circuits cleaning (refrigerators, water heaters).
Package:	Carton 3x10lt Pallet 24x(3x10)



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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : ALAS

Use : Water softener which cleans salt overlays

Company / Undertaking Identification:

VOULIS CHEMICALS
2nd NAOUSA- RAILWAY STATION
P.C.59200
TEL. 0030-23320-26446
FAX 0030-23320-28249

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description: Water softener

CAS Number : - (Mixture)

EC Number : - (Mixture)

Symbols : -

Risk – Phrases : R 36/38

For the full text of the R phrases mentioned in this section, see Section 16

3. HAZARDS IDENTIFICATION

Identification of the risks:

Inhalation : Irritation .

Eyes : Redness and irritation.

Ingestion : Low toxicity. Gastro-intestinal disorders.

4. FIRST AID MEASURES

General: Treat the symptoms.

Inhalation: Remove casualty to fresh air. Seek medical advice if irritation continues.

Skin: After contact with skin wash immediately with plenty of water. Remove heavily contaminated clothing and laundry before reuse.

Eye: Rinse with plenty of water and seek medical advice if adverse effects follow.

Ingestion: Rinse mouth .If conscious allow patient to drink plenty of water. Call for medical assistance if adverse effects follow.

5. FIRE-FIGHTING MEASURES

Extinguishing media: The product itself is not flammable; take extinguishing action appropriate to the fire in the surroundings. Foam; dry powder; carbon dioxide; water spray .

Unsuitable extinguishing media:

Special exposure hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes and skin

Environmental precautions: Keep out of drains and water sources.

Methods for cleaning up: Rinse away residues with large quantities of water.

7. HANDLING AND STORAGE

Handling: Avoid contact with the product. No special measures are required if the material is stored and handled in accordance with the regulations.

Storage: No special measures are required if the material is stored and handled in accordance with the regulations. Stability: storage period 60 months.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: Not defined.

Technical: Provide good ventilation.

Personal protection:

- Hand protection: Wear PVC gloves.
- Eye protection: Wear tight fitting safety goggles.
- Skin and body protection: Wear non-absorbent clothing.
- Respiratory protection: Avoid breathing vapor or mist. Use approved respiratory equipment when airborne exposure is excessive.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Color : Pale yellow
- Odour : Characteristic
- pH : 1
- Boiling point: -
- Flash point: Not applicable to this product
- Self ignition temperature :-
- Vapor pressure (20 °C): -
- Bulk density (kg/m³) : gr/cm³
- Water solubility: Soluble

10. STABILITY AND CHEMICAL PROPERTIES

- **Stability:** Stable under normal storage conditions .Do not expose to extreme temperatures.
- **Hazardous decomposition products:**

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

- Oral: LD50, rat > 3160 mg/kg.

Irritation:

- Skin: Slightly irritant
- Eye: Slightly irritant
- Hypersensitization : not sensitizing

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Not determined
- **Degradability :** Over 90 %

13. DISPOSAL CONSIDERATIONS

- **Product:** Dispose of it in accordance with relevant local regulations.
- **Contaminated packaging:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product ,solutions and any by-product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. TRANSPORT INFORMATION

- **Land Transport:**
ADR/ADNR/RID class: Not a hazardous substance.
- **Sea Transport:**
IMO / IMDG class: Not a hazardous substance.
- **Air Transport:**
ICAO-TI / IATA-DGR: Not a hazardous substance.



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15. REGULATORY INFORMATION

Labeling according to EC directives

- **EC Number:** - (Mixture)
- **Symbol:** -
- **R(isk) phrases:** R 36/38 Irritates eyes, skin and respiratory system
- **S(afety) phrases:** S2 Keep out of the reach of children.
S26 In case of eye contact wash out with plenty of water and ask for medical advice.
S28 In case of contact with skin wash out with plenty of water.

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

