

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

- **1.1. Identification of the substance or preparation**
- **Trade name:** ARO Floor Cleaner Vinegar
- **Article number:** V45330
- **1.2. Use of the substance/preparation** Universal cleaner
- **1.3. Company/undertaking identification**
Fosfa akciová společnost
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- **1.4. Emergency telephone**
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2 HAZARDS IDENTIFICATION

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**
In according to calculation method from directive act no. 232/2004 of Czech Act Coll. as amended and Council Directive 67/548/EE as amended, product has not dangerous properties.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Eye contact:** Exposure to the eye may cause irritation.
- **Skin contact:** Prolonged exposure may cause skin irritation.
- **Ingestion:** Possible mild gastro-intestinal irritation with nausea and vomiting.
- **Inhalation:** Inhaling of aerosolized product may cause mild irritation of the respiratory system.

3 COMPOSITION/INFORMATION ON INGREDIENTS

- **3.1. Full composition (nature of the ingredients and their concentration):**
It is not necessary to give the full composition.
See chapter 15 - Labelling for content.
- **Chemical characterization**
- **Description:**
Liquid cleaner. Mixture of substances, some of which presenting a health or environmental hazard.

- **3.2. Substances presenting a health or environmental hazard:**

CAS: 9004-82-4 Polymer	poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt  Xi; R 36/38	2.5-10%
CAS: 64-17-5 EINECS: 200-578-6	ethanol  F; R 11	2.5-10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

Printing date 03.02.2010

Revision: 03.02.2010

Trade name: ARO Floor Cleaner Vinegar

(Contd. of page 1)

4 FIRST AID MEASURES

· **General information:**

If health problems show or in case of unbelief, seek medical advice or inform doctor and give to him data from this material safety data sheet.

No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

5 FIRE-FIGHTING MEASURES

· **Suitable extinguishing media:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Extinguishing media which shall not be used for safety reasons:**

They are not known. Use fire extinguishing methods suitable to surrounding conditions.

· **Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**

It is not known.

· **Special protective equipment for fire-fighters:** Wear fully protective suit.

· **Additional information** Not explosive. Not auto-flammable. Not flammable.

6 ACCIDENTAL RELEASE MEASURES

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

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

· **Additional information:** No dangerous substances are released.

7 HANDLING AND STORAGE

· **7.1. Handling:**

· **Information for safe handling:** No special measures required.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2. Storage:**

Store in a cool and dry area.

Keep away from foodstuffs, beverages and feed.

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Recommended storage temperature:** 5 - 25 °C

· **7.3. Specific use(s)** According to advices on package of product.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

· **Additional information about design of technical facilities:** see item 5, 6, 7

· **8.1. Exposure limit values:**

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

· **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 3)

GB

Trade name: ARO Floor Cleaner Vinegar

(Contd. of page 2)

- **8.2. Exposure controls:** Not required.
- **8.2.1. Occupational exposure controls:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Hand protection:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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
- **Skin protection:** Protective work clothing
- **8.2.2. Exposure controls of users/consumers:**
Not a hazard in normal use. No personal protective equipment required.
Protective gloves are recommended for people with sensitive skin.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Wash hands at the end of work with product.
- **8.2.3. Environmental exposure controls:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

9 PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|---|
| · 9.1. General information: | |
| Physical state: | Liquid |
| Colour: | Green |
| Odour: | Like perfume |
| · 9.2. Important health, safety and environmental information: | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |
| Flash point: | Not applicable. |
| · Flammability (solid, gas): | Product is not flammable. |
| · Self-igniting: | Product is not selfigniting. |
| · Explosive properties: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| Oxidising properties: | None. |
| Vapour pressure: | Undetermined. |
| Density at 25°C (77°F): | 0.9 - 1.1 g/cm ³ |
| Solubility: | |
| Water solubility: | Fully miscible. |
| pH at 25°C (77°F): | 3.5 - 6.0 |
| Partition coefficient: n-octanol/water: | Undetermined. |
| · 9.3. Other information: | - |

Printing date 03.02.2010

Revision: 03.02.2010

Trade name: ARO Floor Cleaner Vinegar

(Contd. of page 3)

10 STABILITY AND REACTIVITY

- **10.1. Conditions to avoid:** No decomposition if used according to specifications.
- **10.2. Materials to avoid:**
- **Dangerous reactions** No dangerous reactions known.
- **10.3. Hazardous decomposition products:** No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION

- **Acute toxicity:** Undetermined.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- **Toxicokinetics, metabolism and distribution:** Undetermined
- **Acute effects (acute toxicity, irritation and corrosivity):** No known.
- **Sensitisation:** No known.
- **Repeated dose toxicity:** No known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No known.

12 ECOLOGICAL INFORMATION

- **Additional ecological information:**
- **12.1. Ecotoxicity:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.2. Mobility:** Undetermined
- **12.3. Persistence and degradability:** Undetermined
- **12.4. Bioaccumulative potential:** Undetermined.
- **12.5. Results of PBT assessment:** Undetermined.
- **12.6. Other adverse effects:** Undetermined.

13 DISPOSAL CONSIDERATIONS

- **Product:**
- **Recommendation**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts according to act number 185/2001 Sb. of Czech Act Coll., as amended.
- **Waste disposal key:**
07 06 99 Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics, wastes not otherwise specified
20 01 29* Detergents containing dangerous substances
- **Uncleaned packaging:**
Waste disposal key:
15 01 02 Plastic packaging
Dispose of empty and properly cleared package to the collection centre of sorted waste.
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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(Contd. on page 5)

Trade name: ARO Floor Cleaner Vinegar

(Contd. of page 4)

14 TRANSPORT INFORMATION

non hazard classification according to ADR

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

15 REGULATORY INFORMATION

· **Labelling according to EU guidelines:**

Chemical Safety Assessment has been carried out for product. In according to calculation method from directive Act No 232/2004 of Czech Act Coll as amended and Council Directive 67/548/EE as amended, product has not dangerous properties.

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· **Safety phrases:**

2 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

· **Other informations:**

Safety data sheet available for professional user on request.

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents:**

anionic surfactants

5 - 15%

perfumes, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE

< 5%

· **EU directives:**

Corrigendum to Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

Corrigendum to Regulation (EC) No 648/2004 of the European Parliament and of the Council concerning the detergents, as amended.

2000/532/EC: Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended.

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, as amended.

· **Waterhazard 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.

· **List of relevant R phrases. The full text of any R phrases referred to under headings 2 and 3 of the Safety Data Sheet:**

11 Highly flammable.

36/38 Irritating to eyes and skin.

(Contd. on page 6)

Material Safety Data Sheet
according to 1907/2006/EC, Article 31, Annex II

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Revision: 03.02.2010

Trade name: ARO Floor Cleaner Vinegar

(Contd. of page 5)

- **Training advice:** Once a year in according to this material safe data sheet
- **Recommended restrictions on use (i.e. non-statutory recommendations by supplier):** none
- **Further information (written references and/or technical contact point):**
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- **Sources of key data used to compile the Safety Data Sheet:** Material safe data sheets of substances.

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