



Material Safety Data Sheet

Avesta Classic Cleaner 401

Date of issue: 2003-03-18
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In accordance with: ISO 11014-1 and 2001/58/EC
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1. IDENTIFICATION OF PREPARATION AND COMPANY

Product identifier: Cleaning products for stainless steel
Manufacturer: Avesta Welding AB, Finishing Chemicals
Lodgatan 14, 211 24 MALMÖ, Sweden
Telephone: +46 (0)226 82100
Application and use: Cleaning of stainless steel and aluminium
Trade name: Avesta Classic Cleaner 401

Emergency numbers

Australia	131126 (National) +61-2-98453111 (International)	Italy	+39-2-66101029 (Milan) +39-6-3054343 (Rome)
France	+33-1-40370404 (Paris) +33-4-72116911 (Lyon)	Spain	+34-91-5620420 (Madrid)
Finland	+358-(0)9-471977 (Helsinki)	Sweden	020-996000 (National) +46-8-331231 (International)
Germany	+49-89-19240 (Munich) +49-228-2873211 (Bonn)	UK	+44-1-132450530 (Leeds)
		USA	800-424-9300 (Chemtrack)

2. INFORMATION ON INGREDIENTS

Preparation

Chemical nature: Colourless Acid solution with corrosive properties.

Hazardous components, chemical name, formula	CAS No.	EEC No.	Contents weight-%	Risk Code/ R-phrase*
Phosphoric acid , H ₃ PO ₄	7664-38-2	231-663-2	20	C: R34

*The full texts of the phrases are shown in section 16.

Additional information: Classification according to directive 67/548/EEG.

Symbols and risk phrases are for concentrated substances.

3. HAZARDS IDENTIFICATION

Health hazard in case of accidental exposure (R-phrases): R 36/ 38 Irritating to eyes and skin

Environmental effects: Will reduce pH in water. Hence should be neutralised.

4. FIRST AID MEASURES

Measures to be taken immediately after the following ways of contact with pickling acids.

Inhalation: Fresh air and rest. Rinse nose and mouth with water.

Ingestion: Drink at once, preferably milk or water. Do not cause vomiting.

Skin contact: Rinse with water.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes.

5. FIRE FIGHTING MEASURES

Danger of fire/explosion: Fluid is non-flammable. Bottles close to fire should be removed or cooled with water.

Extinguishing media: Water, released product should be neutralised with caustic soda.

Chemical exposure risks caused by the product itself: The Cleaner might be irritating at skin-contact.

Chemical exposure risks caused by released gases/vapours: The Cleaner will emit toxic fumes of phosphoric oxides in the presence of heat/fire.

Protective clothing for firemen: Normal protective clothing.

How to clean or destroy soiled fire equipment: Thoroughly wash with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid direct contact. Wear eye- protection, skin-protection and rubber gloves. Keep good ventilation.

Environmental precautions (water, air, soil): Prevent spillage from entering sewage or public waters.

Methods for cleaning up: Neutralise with Avesta Neutralising Agent or a strong alkaline compound i.e. slaked lime. Embank with sand. Arrange for pick up. Rinse with plenty of water.

Spillage and decontamination: Spillage should be picked up and disposed of in full compliance with federal, state and local regulations as acid waste.

7. HANDLING AND STORAGE

Handling

Technical measures: Working place and methods should be worked out in order to avoid direct contact. Keep good ventilation.

To prevent fire and explosion: Bottles close to fire should be removed or cooled with water.

Precautions: Avoid fume generation and accumulation by using in a well-ventilated area. Use in areas having local exhaust and general ventilation.

Possibilities to rinse the eyes with water should be available at the working place.

Storage

Technical measures: Storage room should be kept separate, cool, dry and closed to unauthorised persons.

Incompatible products: Not applicable

Storage conditions: Keep containers securely closed when not in use and in an upright position. Store in areas where temperature remains between 0-30 °C at all times.

Packaging materials: Packaging material must be of acid resistant plastic material.

Shelf life: At least 2 years in unopened bottle correctly stored.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Hand protection: Acid resistant rubber-gloves.

Eye protection: Face shield.

Skin and body protection: Rubber boots and acid resistant clothes, which covers all body parts exposed to splashes.

Specific hygienic measures: Do not inhale fumes, avoid contact with eyes, skin and clothes. It is not allowed to eat, drink and smoke at workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (form, colour, smell) at 20°C:

Transparent liquid with a slight smell.

Boiling point: 80-100°C

Flash point / Explosion properties: Not applicable.

Specific temperatures:

Solid-fluid 0°C, Fluid-gas 80-100°C

Vapour pressure at 20°C: < 0.01 kPa

pH: 0 at 20°C

Density: 1.1 g/cm³ at 20°C

Solubility in water at 20°C: 100 weight %

Solubility in organic solvents: Not applicable.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions, polymerization will not occur.

Conditions to avoid: Avoid high temperatures, must not be exposed to direct sunshine. When heated phosphoric gases will be developed.

Material to avoid: Alkaline compounds and water, will give an exothermal reaction, with heat development.

Hazardous decomposition products: Will emit phosphoric gases and hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Local effects

Effects on the skin: Prolonged contact may be irritating.

Effects on the eyes: Irritating to eyes.

After ingestion: May give pain, vomiting and diarrhoea.

Upon inhalation: Inhalation of fumes or mist might cause aches, cough and difficulty in breathing. Risk for oedema on the lungs.

12. ECOLOGICAL INFORMATION

Environmental effects

Mobility: The product in its concentrated form will lower the pH of ground water and may not be discharged into the Clearwater system without pre-treatment.

Bioaccumulation: The product is not regarded as bioaccumulative.

13. DISPOSAL CONSIDERATIONS

Methods of disposal

Waste from residues: Contaminated residues i.e. wastewater must be neutralised to correct its pH-value to pH 6-11, and heavy metals resulting from the cleaning of stainless steel should be removed. Neutralise with Avesta Neutralising Agent or slaked lime.

Contaminated packing: Rinse with plenty of water.

Additional information: A filtration system for rinse water is recommended. Effluent must be separated and disposed of as acidic waste. Consult with your local authorized and licensed waste disposal agency and ministry of environment for instructions and procedures for approved waste disposal.

14. TRANSPORT

No specific precaution.

15. REGULATORY INFORMATION

Regulations

No specific regulations.

Danger symbols:



Irritant

Sentences expressing the risks

R 36/38: Irritating to eyes and skin.

Sentences about safety measures

S 25: Avoid contact with eyes.

16. OTHER INFORMATION

Training advice: The Avesta Finishing Chemicals "Handbook for the pickling and cleaning of stainless steel" and "Guidelines for Planning and Designing a Pickling Workshop".

Recommended applications and restrictions: Only for the cleaning of stainless steel (aluminium), not to be used on other metals.

Basic information sources used to draw up the information cards: Standard Practice for cleaning stainless steel (ASTM-A-380), International Standard ISO 11014-11, Commission Directive 2001/58/EC

The full texts of the R-phrases in section 2 are:

R 34: Causes burns.

Changes made:

2003-11-06: New emergency numbers

2005-12-22: Changed name from CleanOne