

Safety Data Sheet

Avesta Classic Cleaner 401

This Safety Data Sheet contains information to help users understand the potential hazards relating to this product and provides advice for risk management. This information must be shown to or made available to those who may come into contact with the material or are responsible for the material. This Safety Data Sheet is prepared in accordance with GHS, as adopted by the UN Economic and Social Council (ECOSOC) in July 2003 and being implemented into the US under OSHA Hazard Communication Standard 29CFR1910.1200 and being implemented into Canada to meet the legal obligations under WHMIS (Workplace Hazardous Materials Information System). Reference is also made to the current OSHA requirements, with classification to NFPA standards and also to the Canadian WHMIS Classification as part of transitional arrangements.

1. Identification of the Substance and Supplier

Trade name	Avesta Classic Cleaner 401 Avesta Cleaner 401
Description	Clear colourless preparation of phosphoric acid in water for cleaning stainless steel.
Issue date:	2010-09-20, 1
Manufacturer:	Avesta Finishing Chemicals Lodgatan 14, 211 24 Malmö, Sweden Tel: +46 (0)40 28 83 00 Email: safety@avestafinishing.com Web: www.avestafinishing.com
Supplier	Avesta Welding LLC 10401 Greenbough Drive Stafford, TX 77477 USA Tel: 1 (281) 208-3300 Fax: 1 (281) 208-3328 Email: safety@avestafinishing.com

In case of emergency call CHEMTREC: 1 (800) 424-9300
In case of non-emergency assistance (800) 441-7343 or 716-827-4400

2. Hazards Identification

The product is considered dangerous if in contact with skin, eyes or if ingested.

NFPA RATING: Health = 3 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 3 Flammability = 0 Reactivity = 0
Classification WHMIS Class E, Corrosive



Classification GHS Skin Corrosion, Category 1B
DANGER:
Hazard Class Corrosive,
Causes severe skin burns and eye damage

Classification EU C Corrosive, R34

Contact with skin and eyes may cause severe damage without rapid first aid. Inhalation of spray may cause irritation to the respiratory tract. Ingestion may cause damage to the GI tract. None of the components are considered to be potential sensitizers. There are no known long-term health effects resulting from exposure. The product is not considered as Dangerous to the Environment, although due to the acidic nature of the product, care should be taken to avoid direct loss to the environment.

3. Composition

CAS	Name	Content	Class (GHS)	WHMIS
7664-38-2	Phosphoric acid	10-20%	Category 1 Corrosive	Class E Corrosive
16961-83-4	Hexafluorsilicic acid	0.1-0.9%	Category 1 Corrosive	Class E, Corrosive
78330-21-9	Alcohols, C11-14- iso-, C13-rich, ethoxylated	3-5%	Xn, R22, 41	

4. First Aid Measures

Inhalation

If exposed to spray, move to area of fresh air. If any signs of adverse effect, obtain medical advice. Treatment should be consistent with effects from acid exposure.

Skin contact

Wash skin immediately with water and keep affected areas under flowing water. Obtain medical advice if continued signs of irritation or discomfort are noted. Treatment should be consistent with effects from acid exposure. Wash clothing before re-use.

Eye contact

Flush eyes immediately with plenty of water for at least 5 minutes. Seek immediate medical advice. Treatment should be consistent with effects from acid exposure.

Ingestion

If swallowed, rinse mouth thoroughly and drink small quantity of water (500 ml). Obtain medical advice if signs of adverse effect or discomfort.

Note to medical staff: Treat as for phosphoric acid solution. Rapid first aid is essential in case of contact.

5. Fire fighting Measures

Not flammable

Extinguishing media

If involved in a fire, use an extinguishing media suitable for the material that is burning. This product is not known to be reactive with any extinguishing media.

Special exposure hazards (from the material or its combustion products)

Gives off irritating or toxic fumes (or gases) in a fire.

Special precautions for fire fighters

As in any fire, wear NIOSH approved, positive-pressure, self-contained breathing apparatus and full protective gear.

6. Accidental release measures

Personal precautions

Remove unnecessary personnel away from area of spill or contamination.

During cleaning, protective clothing should be worn to avoid contact with skin and eyes.

Environmental precautions

Prevent spilled material or washings entering water courses or storm-water drainage systems. Diluted product and washings may be discharged into foul-water systems leading to waste water treatment plants.

Methods for cleaning up

Spills of up to 5 litres can be rinsed away with large quantities of water to waste water drains that lead to waste water treatment plants. (See Environmental Precautions , above) . If not possible, absorb onto sand, sawdust or other suitable material. Residues should be collected and disposed of as chemical waste in suitably labelled containers. If the spillage is greater than 5 litres, contain spill and call in trained personnel. Follow supplier recommendations for neutralisation.

The area contaminated by the spill may be neutralized with baking soda or soda ash, and the washings rinsed away as described above.

7. Handling and storage

Handling

Other than the use of goggles, acid resistant gloves and coveralls, no special handling precautions are required. See section 8 for more details.

Storage

Store in original containers between 0 – 30°C. No special precautions.

8. Exposure controls/personal protection

Phosphoric Acid

US Exposure Limits

OSHA Permissible Exposure Limit 1 mg/m³

Canadian Exposure Limits

Alberta	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
British Columbia	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Ontario	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Quebec	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)

Hexafluorosilicic acid

US Exposure Limits

OSHA Permissible Exposure Limit 2.5 mg/m³ (TWA), Fluorides, as F



Canadian Exposure Limits

Alberta	2.5 mg/m ³ (TWA), Fluorides, as F
British Columbia	2.5 mg/m ³ (TWA), Fluorides, as F
Ontario	2.5 mg/m ³ (TWA), Fluorides, as F
Quebec	2.5 mg/m ³ (TWA), Fluorides, as F

DNEL has not been determined, but no long term health effects are known.

Respiratory protection

None required during normal handling. Use in well ventilated areas and avoid formation of spray or aerosols.

Hand protection

Suitable chemical resistant gloves recommended for use with acid materials and resistant to acids. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Goggles must be worn when handling this product.

Skin protection

Coveralls recommended. These should be changed after use or if contaminated. Wash before re-use.

Environmental exposure controls

When handling small quantities (less than 5 litres), no special precautions required. If handling bulk material, precautions should be taken to avoid accidental release to water courses.

9. Physical and Chemical Properties

Appearance	Clear liquid
Freezing point	< 0°C
Boiling point	Ca 100°C
Relative density	1.1
Water solubility	Miscible in water, pH 0.6
Flash point	N/A
Vapour pressure	As for water

10. Stability and Reactivity

Conditions to avoid

The material is considered to be stable under normal conditions. Store away from direct sunlight and avoid elevated temperatures

Materials to avoid

Avoid contact with alkaline materials and strong oxidising or reducing agents.

Hazardous decomposition products

Decomposition can produce irritating or toxic fumes (or gases).

11. Toxicological Information

The preparation has not been tested but the effects can be estimated using the criteria covered by GHS and through estimation from the EU Preparations Directive 2001/59/EC. Corrosive effects are predicted through consideration of the pH.

Acute oral toxic class Estimated > 2000 mg/kg based on components, but considered corrosive

Toxicity values for components:

Phosphoric acid

LD50 (rat,oral) 1530 mg/kg
LD50 (rabbit, skin) 2740 mg/kg
TCLo (inhalation, human) 100 mg/m³

Hexafluorosilicic acid

LD50 (rat, oral) 430 mg/kg
LD50 (guinea pig, oral) 200 mg/kg

Eyes Will cause eye damage due to low to pH
Skin Considered corrosive to skin, GHS Category 1B
Sensitiser None of the components are considered to be sensitisers
Inhalation Inhalation of spray or aerosol may cause irritation respiratory tract. . Long term exposure to acid vapours to may cause chronic respiratory irritation and dental erosion.

Long-term toxicity None of the components are listed as CMR*

(*Carcinogenic, mutagenic or reproductive toxin)

12. Ecological Information

The preparation has not been tested but there are no components present at concentrations that will cause the preparation to be classified as Dangerous to the Environment. The low pH may cause local damage if released into the environment.

The organic wetting agent is considered to be biodegradable. There are no components considered to be persistent or bioaccumulative.

Toxicity values for components

Phosphoric acid

TLm mosquito fish 138 mg/l/24-96 hr in turbid water at 22-24 deg C

13. Disposal Considerations

It is recommended to dispose of small quantities of this material (< 5 litres) by flushing with an excess of water to foul drainage. A dilution factor of 100 is recommended. Larger quantities of waste should be treated as hazardous chemical waste in a manner that complies with local regulations. Advice should be sought from local agencies.

The containers should be rinsed thoroughly with water and can be disposed of as non-hazardous waste.

Careful neutralisation may be possible. Follow supplier recommendations.

14. Transport Information

UN proper description and shipping name:
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid).
Hazard class 8, Corrosive
Packing group III
UN Number 3264

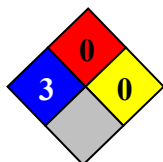
15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Classification GHS



DANGER
Skin Corrosion, Category 1B
Hazard Class Corrosive
Causes severe skin burns and eye damage



NFPA RATING: Health = 3 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 3 Flammability = 0 Reactivity = 0

WHMIS



Class E, Corrosive

The chemicals in this product are listed on the US TSCA Chemical Substances Inventory, the Canadian Domestic Substances List and European EINECS.

Classification EU C Corrosive, R34, based on pH < 2.

16. Other Information

Details of EU R phrases in Section 2 and Section 15,
R34 Causes burns
Check instructions for use before using.

Changes since last revision in:
Document number is changed
Section 1: Trade name,
Section 3: Changing of statement
Section 5: Extinguishing media
Section 5: Special precautions for fire fighters
Section 6: Methods for cleaning up
Section 9: Flash Point
Section 10: Hazardous decomposition products - Changing of statement
Section 15: Added a chemical inventory statement

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