

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 FinishOne™ 630
Description	Colourless solution of hydrogen peroxide with wetting agents for surface cleaning
Issue date:	2009-11-06
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 = 1 Flammability = 0 Reactivity = 0
HMIS RATING:	Health = 1 Flammability = 0 Reactivity = 0
Classification WHMIS	Not classified
Classification GHS	Not classified
Classification EU	Not classified

Contact with skin and eyes may cause slight irritation and discomfort. Inhalation of spray may cause irritation to the respiratory tract.
There are no known long-term health effects resulting from exposure.

The product is not considered as Dangerous to the Environment, although care should be taken to avoid direct loss to the environment.

3. Composition

CAS	Name	Content	Class (GHS)	WHMIS
7722-84-1	Hydrogen peroxide	2-4.5%	Category 2 Liquid oxidiser Category 2 Acute Toxic Category 1B Corrosive	Class C, Oxidising material Class D, 1A Very Toxic Class E, Corrosive

Contains non-ionic surfactants and salts in water at concentrations below thresholds for classification

4. First Aid Measures

Inhalation

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

Skin contact

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

Eye contact

Flush eyes immediately with plenty of water for at least 5 minutes.
Seek medical advice if signs of continued discomfort. Treatment should be consistent with effects from exposure to peroxides.

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 hydrogen peroxide solution.

5. Fire fighting Measures

Not flammable

Extinguishing media

If in the vicinity of a fire, there are no known adverse reactions to any normal extinguishing media. . The material is not known to be reactive with any extinguishing media.

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

Normal combustion products are not considered to be specifically hazardous.

Special precautions for fire fighters

None. The concentration of hydrogen peroxide is below thresholds for concern.

6. Accidental release measures

Personal precautions

In case of large spill (> 5 litres) 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 to waste water drains with large quantities of water. Spills of over 5 litres should be contained and absorbed onto sand, sawdust or other suitable material. Residues should be collected and disposed of as non-hazardous chemical waste in suitably labelled containers.

The area contaminated by the spill should be washed with water.

7. Handling and storage

Handling

Eye protection, peroxide resistant gloves and coveralls recommended when handling the product. See section 8 for more details.

Storage

Store in original containers between 0 – 30°C. No special precautions. The concentration of hydrogen peroxide is below thresholds for concern.

8. Exposure controls/personal protection

Hydrogen peroxide

US Exposure Limits

OSHA Permissible Exposure Limit (PEL): 1 ppm (8 hour TWA)
ACGIH Threshold Limit Value (TLV): 1 ppm (8 hour TWA)

Canadian Exposure Limits

Alberta	1 ppm (1.4 mg/m ³) (TWA)
British Columbia	1 ppm
Ontario	1 ppm (1.4 mg/m ³) (TWA)
Quebec	1 ppm (1.4 mg/m ³) (TWA)

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, aerosols or vapours.

Hand protection

Suitable chemical resistant gloves recommended for use with peroxides (neoprene not recommended for peroxides). 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 should 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	Colourless liquid with faint odour.
Freezing point	< 0°C
Boiling point	Ca 100°C
Relative density	1.26
Water solubility	Miscible in water, pH 7
Flash point	> 100°C
Vapour pressure	Hydrogen peroxide vapour may be released at elevated temperatures

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 strong reducing agents.

Hazardous decomposition products

Hydrogen peroxide may be released at elevated temperatures

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.

Acute oral toxic class Estimated > 2000 mg/kg based on components

Toxicity values for hydrogen peroxide:
LD50 (rat, oral) 1200 mg/kg (35% H₂O₂)
LD50 (rat, oral) > 5000 mg/kg (10% H₂O₂)
LD50 (rabbit, dermal) > 2000 mg/kg (35% H₂O₂)

Eyes	Will cause mild eye irritation due to presence of hydrogen peroxide, but not classified under GHS or WHMIS
Skin	Considered slightly irritating to skin, but not classified
Sensitiser	None of the components are considered to be sensitisers
Inhalation	Inhalation of spray or aerosol may cause slight irritation to respiratory tract
Long-term toxicity	Not expected to cause any long term adverse effects. 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.

There are no components considered to be persistent or bioaccumulative.

Toxicity values for component ingredients: hydrogen peroxide:

LC50 (Pimephales promelas, 96 hr)	16.4 mg/l
EC50 (Daphnia pulex, 48 hr)	2.4 mg/l
EC50 (Chlorella vulgaris, 48 hr)	2.5 mg/l

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 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.

Follow supplier recommendations.

14. Transport Information

UN proper description and shipping name:

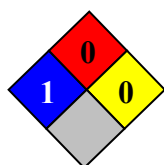
Not classified for transport

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

Not classified



NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 1 Flammability = 0 Reactivity = 0

WHMIS

Not classified

Classification EU

Not classified

16. Other Information

Check instructions for use before using.

Changes since last revision in: 1, 3, 8, 11, 12 and 15.

Issued by: André Fasth

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