

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name **HYSTORIQA**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Protective for concrete and mineral stone surfaces.

1.3. Details of the supplier of the safety data sheet

Name	AM TECHNOLOGY SA
Full address	Via Cantonale 50
District and Country	6805 Mezzovico - Vira Svizzera
	Tel. 0041 919306376

e-mail address of the competent person responsible for the Safety Data Sheet benvenuti@airlite.com

2. Hazards identification.

2.1. Classification of the substance or mixture.

H 290 May be corrosive to metals

2.2. Label elements.

This product is subject to hazard labeling pursuant to Directives 1272/2008 (CLP) and subsequent amendments and supplements.

Warning symbols:



Signal word: warning

Hazard statement:

H 290 may be corrosive to metals

Precautionary statement

P234 – Keep only in original container

P390 – Absorb spillage to prevent material damage

P406 – Store in corrosive resistant/... container with a resistant inner liner

Safety data sheet available upon request for professional users.

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

3. Composition/information on ingredients.

3.1. Substances. Information not relevant.

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3.2. Mixtures.

Contains:

Hydrochloric acid Conc. %
 CAS. 7647-01-0 0,4 – 0,5
 INDEX. 017-002—01-X
 Nr. Reg. 01-2119484862-27-xxxx

Classification 1272/2008 (CLP). Hydrochloric acid
 Met.Corr. 1 H290, Skin Corr1B H314, STOT SE 3 H 335 Nota B CE 231-595-7

Titanium Dioxide
 CAS. 13463-67-7
 CE 236-675-5
 INDEX.
 Nr. Reg.
 01-2119489379-17000

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First aid measures.

4.1. Description of first aid measures.

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2. Most important symptoms and effects, both acute and delayed.

No episode of damage to health ascribable to the product have been reported.

4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and antistatic), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

6.3. Methods and material for containment and cleaning up.

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

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6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities.

Normal storage conditions without particular incompatibilities.

7.3. Specific end use(s).

Information not available.

8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References

EU OEL EU Directive 2009/161/EU, Directive 2006/15/EC, Directive 2004/37/EC, Directive 2000/39/EC

TLV-ACGIH ACGIH 2016

Titanium Dioxide

Threshold Limit Value

Type	Country	TWA/8h	ppm	STEL/15 min	ppm
TLV-ACGIH	EU	10 mg/m ³			

Hydrochloric acid

Threshold Limit Value

Type	Country	TWA/8h	ppm	STEL/15 min	ppm
TLV	ITA	8 mg/m ³	5	15 mg/m ³	10
OEL	EU	8 mg/m ³	5	15 mg/m ³	10
TLV-ACGIH				2,9 (C)	2(C)

C= CEILING

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent.

The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

EYE PROTECTION

Use of protective airtight goggles (ref. standard EN 166) recommended.

9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	transparent white
Odour threshold.	Not available.
pH.	3 -5
Melting or freezing point.	Not available.
Initial boiling point.	Not available
Boiling range.	Not available.
Flash point.	Not available.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.

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Specific gravity.	1 Kg/l
Solubility	miscible with water
Partition coefficient: n-octanol/water	Not available.
Ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Oxidising properties	Not available.

9.2. Other information.

VOC (Directive 2010/75/EC)	0,40% - 4,00 g/l
VOC (volatile carbon)	0,245 – 2,40 g/l

10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular, however the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects.

According to currently available data, this product has not yet produced health damages. Anyway it must be handled according to good industrial practices.

Titanium dioxide

LD50 (Oral) > 10000 mg/kg rat

12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

Hydrochloric acid Water soluble > 10000 mg/l

Titanium Dioxide Water soluble < 0,001 mg/l

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

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13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information.

14.1 UN nr.

ADR/RID/IMDG / IATA 1789

14.2 UN Proper shipping name

ADR/RID	HYDROCHLORIC ACID SOLUTION
IMDG	HYDROCHLORIC ACID SOLUTION
IATA	HYDROCHLORIC ACID SOLUTION

14.3 Transport hazard classes

ADR/RID	Class 8 Label 8
IMDG	Class 8 Label 8
IATA	Class 8 Label 8

14.4 Packing group

ADR/ RID - IMDG - IATA III

14.5 Henvironmental hazards

ADR/ RID - IMDG - IATA NO

14.6 Special precautions for users

ADR/RID	HIN-Kemler : 80	Limited Quantities 5 L	Tunnel restriction code: E
IMDG	EMS:F-A, S-B	Limited Quantities 5 L	
IATA	Cargo	Limited Quantities 60 l	Packaging instruction 964
	Pass	Limited Quantities 5L	Packaging instruction 852
	Special instruction	A3,A803	

14.7 Transport in bulk in according to Annex II of marpol and IBC code

15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category.
None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

No
ne.

Substances in Candidate List (Art. 59 REACH).

No
ne.

Substances subject to authorisarion (Annex XIV REACH).

No
ne.

Healthcare
controls.

Information not
available.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other information.

Text of risk (H) phrases mentioned in section 2-3 of the sheet:

H 290 MAY BE CORROSIVE TO METALS

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.