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Safety Data Sheet

acc. to OSHA HCS

Printing date 05/24/2021

Reviewed on 05/24/2021

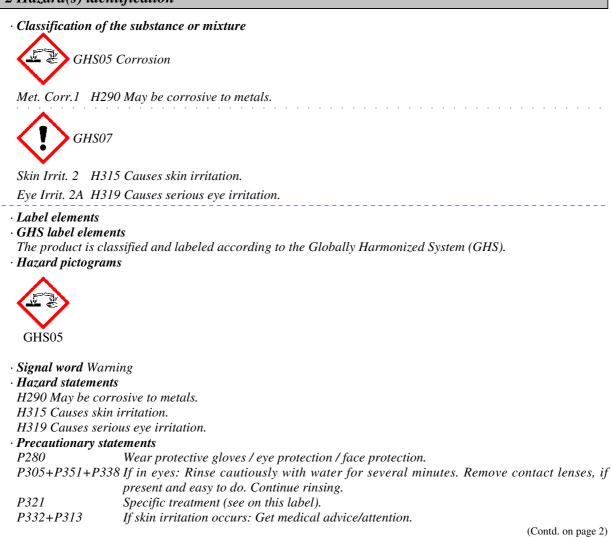
1 Identification

- · Product identifier
- · Product name: Antimony Standard: 1000 μg/mL Sb in 1% HNO3, tr. Tartaric Acid [100ml bottle]
- · Part number: 5190-8244
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
- \cdot Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

Tel: 800-227-9770

Information department: e-mail: pdl-msds_author@agilent.com
Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification





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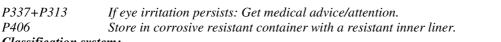
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• Classification system: • NFPA ratings (scale 0 - 4)

 $\begin{array}{c} \textbf{Health} = 2\\ \textbf{Fire} = 0\\ \textbf{Reactivity} = 0 \end{array}$

· HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

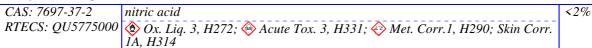
3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description:

Aqueous solution. Also contains substances at levels not considered to be hazardous.

· Dangerous components:



· Additional information:

The concentration of the acid stated in this SDS is calculated as an absolute mass concentration (%w/v). This is less than the acid concentration stated on the product label and COA, which reflects a percent value of the commercially available concentrated aqueous form of the acid.

4 First-aid measures

- · Description of first aid measures
- \cdot **General information:** Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Rinse mouth. Do not induce vomiting.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

o Acciaentai release measures				
Wear protective of Environmental p Methods and ma Use neutralizing Dispose contami Absorb liquid co DO NOT USE SA Reference to oth See Section 7 for See Section 8 for See Section 13 for	nated material as waste according to item 13. mponents with liquid-binding material. AWDUST.			
· PAC-1:				
CAS: 7697-37-2	nitric acid	0.16 ppm		
CAS: 87-69-4	Tartaric acid	1.6 mg/m ³		
CAS: 7440-36-0	Antimony	1.5 mg/m ³		
· PAC-2:				
CAS: 7697-37-2	nitric acid	24 ppm		
CAS: 87-69-4	Tartaric acid	17 mg/m ³		
CAS: 7440-36-0	Antimony	13 mg/m ³		
· PAC-3:				
CAS: 7697-37-2	nitric acid	92 ppm		
CAS: 87-69-4	Tartaric acid	100 mg/m ³		
CAS: 7440-36-0	Antimony	80 mg/m ³		

7 Handling and storage

· Handling:

· Precautions for safe handling Store in cool, dry place in tightly closed receptacles.



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· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

• Information about storage in one common storage facility: Store away from foodstuffs.

• Further information about storage conditions: Keep receptacle tightly sealed.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 7697-37-2 nitric acid

PEL Long-term value: 5 mg/m³, 2 ppm

REL Short-term value: 10 mg/m³, 4 ppm

Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: 10 mg/m³, 4 ppm Long-term value: 5.2 mg/m³, 2 ppm

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Breathing equipment: Not required.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

• *Material of gloves PVC gloves Neoprene gloves*

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· Penetration time of glove material

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The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

	1	
Information on basic physical and c General Information	hemical properties	
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	<2	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.01751 g/cm ³ (8.49112 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity: Dynamic at 20 °C (68 °F):	0.952 mPas	

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Kinematic:

Not determined.

• Other information

No further relevant information available.

10 Stability and reactivity

· Reactivity

Stable under normal conditions.

No further relevant information available.

· Chemical stability Stable under normal conditions.

- *Thermal decomposition / conditions to be avoided: Formation of toxic gases is possible during heating or in case of fire.*
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat.
- Incompatible materials:
- Strong oxidizing agents.
- Metals.

• Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Based on available data, the classification criteria are not met.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

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• Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Not hazardous for water.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

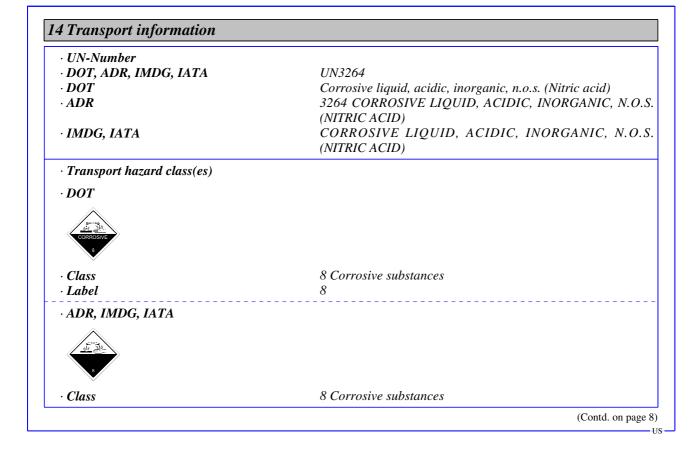
13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Dispose in accordance with national regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.





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· Label	8
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances
· Hazard identification number (Kemler code)): 80
· EMS Number:	F-A,S-B
· Segregation groups	Acids
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·ADR	
· Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):				
CAS: 7697-37-2 nitric acid				
· Section 313 (Specific toxic chemical listings):				
CAS: 7697-37-2 nitric acid				
CAS: 7440-36-0 Antimony				
· TSCA (Toxic Substances Control Act):				
All components have the value ACTIVE.				
· Hazardous Air Pollutants				
None of the ingredients is listed.				
· Proposition 65				
· Chemicals known to cause cancer:				
None of the ingredients is listed.				
· Chemicals known to cause reproductive toxicity for females:				
None of the ingredients is listed.				
· Chemicals known to cause reproductive toxicity for males:				
None of the ingredients is listed.				
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• *Chemicals known to cause developmental toxicity:* None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Hazard pictograms



· Signal word Warning · Hazard statements H290 May be corrosive to metals. H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements P280 Wear protective gloves / eye protection / face protection. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P406 Store in corrosive resistant container with a resistant inner liner. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- · Date of preparation / last revision 05/24/2021 / 1
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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[·] Contact:



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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Ox. Liq. 3: Oxidizing liquids - Category 3 Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A · Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

• Data compared to the previous version altered. All sections have been updated.