

Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 10.24.2014

Page 1 of 7

Vinegar

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Vinegar

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25623A

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc  
9 Barnhart Drive, Hanover, PA 17331  
(717) 632-1291

Supplier Details:

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
(724)517-1954

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2: Hazards identification

Classification of the substance or mixture: None

Hazard statements: None

Precautionary statements:

If medical advice is needed, have product container or label at hand.

Read label before use.

The mixture is being classified on the basis of the classification of the flammable ingredient at or equal to 50%  
(Source: CRC Handbook of Chemistry and Physics, 63rd Edition).

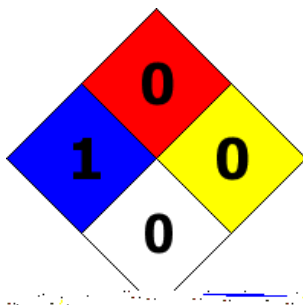
Other Non-GHS Classification:

WHMIS

D2B



NFPA/HMIS



NFPA SCALE (0-4)

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 10.24.2014

Page 2 of 7

Vinegar

SECTION 3: Composition/information on ingredients

Ingredients:		
CAS 64-19-7	Acetic Acid	5 %
CAS 7732-18-5	Deionized Water	95 %

Vinegar

respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Remove from all sources of ignition. Soak with inert material. Use spark-proof tools and explosion-proof equipment. Always obey local regulations.

Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas. Wash hands after handling. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed. Protect from freezing.

SECTION 8: Exposure controls/personal protection



Control Parameters:

64-19-7, Acetic Acid, ACGIH TLV: 25mg/m<sup>3</sup>, OSHA PEL: 25mg/m<sup>3</sup>.

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Protection of skin:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection:

Safety glasses with side shields or goggles.

General hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

Safety Data Sheet  
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Effective date : 10.24.2014

Page 4 of 7

Vinegar

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid	Explosion limit lower: Explosion limit upper:	0 Vol % 0 Vol %
Odor:	Vinegar-like	Vapor pressure:	2.3 kPa (@ 20°C) or 23 hPa (17 mm Hg) at 20 °C (68 °F)
Odor threshold:	Not determined	Vapor density:	0.62 (Air = 1)
pH-value:	Not determined	Relative density:	1 (Water = 1)
Melting/Freezing point:	0 °C (32 °F)	Solubilities:	Soluble in Water.
Boiling point/Boiling range:	100°C (212°F)	Partition coefficient (n-octanol/water):	Not determined
Flash point (closed cup):	Not applicable	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid,gaseous):	Not applicable	Viscosity:	a. Kinematic: Not determined b. Dynamic: 0.952 mPas at 20 °C (68 °F)
Density: 1 g/cm <sup>3</sup> (8.345 lbs/gal) at 20 °C (68 °F)			

SECTION 10: Stability and reactivity

Reactivity: None

Chemical stability:

No decomposition if used and stored according to specifications.

Possible hazardous reactions: None

Conditions to avoid:

Store away from oxidizing agents, strong acids or bases.

Incompatible materials:

Strong acids. Strong bases. Oxidizers. Metals.

Hazardous decomposition products:

Carbon oxides (CO, CO<sub>2</sub>). Irritating fumes.

SECTION 11: Toxicological information

Acute Toxicity:		
Oral:	LD50 orl-rat: 3310 mg/kg (Acetic Acid)	
Dermal:	LC50 inhalation-rat: 5620 ppm/ 1hr. (Acetic Acid)	

Safety Data Sheet  
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Effective date : 10.24.2014

Page 5 of 7

Vinegar





Vinegar

IMDGInternational Maritime Code for Dangerous Goods.  
IATAInternational Air Transport Association.  
GHSGlobally Harmonized System of Classification and Labelling of Chemicals.  
ACGIHAmerican Conference of Governmental Industrial Hygienists.  
CASChemical Abstracts Service (division of the American Chemical Society).  
NFPANational Fire Protection Association (USA).  
HMISHazardous Materials Identification System (USA).  
WHMISWorkplace Hazardous Materials Information System (Canada).  
DNELDerived No-Effect Level (REACH).  
PNECPredicted No-Effect Concentration (REACH).  
CFRCode of Federal Regulations (USA).  
SARASuperfund Amendments and Reauthorization Act (USA).  
RCRResource Conservation and Recovery Act (USA).  
TSCAToxic Substances Control Act (USA).  
NPRINational Pollutant Release Inventory (Canada).  
DOTUS Department of Transportation.

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