

Safety Data Sheet M017501SG1

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

Identification

Product form : Mixture

Product name : Hydrochloric acid. 1 M in acetic acid

Product code : M017-5-01SG1

: Hydrochloric acid in glacial acetic acid Synonyms

Other means of identification : MFCD00011324

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

Use of the substance/mixture : Laboratory chemicals

Manufacture of substances

Scientific research and development

1.3. Details of the supplier of the safety data sheet

SynQuest Laboratories, Inc.

P.O. Box 309

Alachua, FL 32615 - United States of America

T (386) 462-0788 - F (386) 462-7097

info@synquestlabs.com - www.synquestlabs.com

Emergency telephone number

Emergency number : (844) 523-4086 (3E Company - Account 10069)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226 - Flammable liquid and vapour Met. Corr. 1 H290 - May be corrosive to metals

Skin Corr. 1A H314 - Causes severe skin burns and eve damage

Eve Dam. 1 H318 - Causes serious eye damage H335 - May cause respiratory irritation STOT SE 3

H402 - Harmful to aquatic life Aquatic Acute 3

Full text of H-phrases: see section 16

Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS05

GHS07

Signal word (GHS-US) : Danger

H226 - Flammable liquid and vapor Hazard statements (GHS-US)

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

H402 - Harmful to aquatic life

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 - Keep container tightly closed P234 - Keep only in original container

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse SDS ID: M017501SG1 Page 1

05/13/2020 EN (English US)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P390 - Absorb spillage to prevent material damage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P406 - Store in corrosive resistant container with a resistant inner liner P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

Other hazards not contributing to the classification

: Lachrymator.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Acetic acid, glacial	(CAS No) 64-19-7	90 - 100	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
Hydrochloric acid, anhydrous	(CAS No) 7647-01-0	1 - 5	Simple Asphy, H380 Liquefied gas, H280 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial

respiration. Get immediate medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.

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

Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Symptoms/injuries after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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

Treat symptomatically.

05/13/2020 EN (English US) SDS ID: M017501SG1 2/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.

Special hazards arising from the substance or mixture

Fire hazard : Thermal decomposition generates: Carbon oxides. Hydrogen chloride.

Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed Explosion hazard

containers. May form flammable/explosive vapor-air mixture.

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to Reactivity

release highly explosive/flammable hydrogen gas.

Advice for firefighters

Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

Wear gas tight chemically protective clothing in combination with self contained breathing Protection during firefighting

apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes,

vapor or spray.

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

For emergency responders 6.1.2.

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground **Emergency procedures** level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of

ianition.

Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.

Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use Methods for cleaning up

explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.

For disposal of solid materials or residues refer to section 13: "Disposal considerations". Other information

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal

protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be

followed. Use only non-sparking tools.

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or Hygiene measures smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Keep container closed when not in use. Keep away from ignition sources. Hygroscopic. Keep Storage conditions

contents under inert gas.

Incompatible materials Refer to Section 10 on Incompatible Materials.

Storage area : Store in dry, cool, well-ventilated area.

SDS ID: M017501SG1 05/13/2020 EN (English US) 3/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrochloric acid, 1 M in acetic acid		
ACGIH	ACGIH Ceiling (ppm)	2 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
Acetic acid, glacial (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACCILI	ACCILL CTEL (name)	45

Acetic acid, glacial (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	15 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; pulm func
OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm

Hydrochloric acid, anhydrous (7647-01-0)		
ACGIH	ACGIH Ceiling (ppm)	2 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers

should be available in the immediate vicinity of any potential exposure.

Hand protection : Protective gloves. 29 CFR 1910.138: Hand Protection.

Eye protection : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory

Protection.

Other information : Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas.

Color : Colorless

Odor : Pungent choking

Odor threshold : No data available

pH : 1.1 (conc: 0.1 N (solution)

Melting point : -114.4 °C

Freezing point : No data available

Boiling point : -85 °C Flash point : 40 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available Vapor pressure 31.33 hPa (at 20 °C) Relative density : No data available Relative vapor density at 20 °C : No data available Specific gravity / density : 1.095 g/ml (@ 20 °C)

05/13/2020 EN (English US) SDS ID: M017501SG1 4/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Molecular mass : 36.461 g/mol

Solubility : Water: 823 g/l (at 0 °C)
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Alcohols. Alkali metals. Bases. Fluorine. Oxidizing agents. Reducing agents. Soluble carbonates and phosphates.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acute toxicity	: Not classified	
Hydrochloric acid, 1 M in acetic acid		
LD50 oral rat	238 - 277 mg/kg	
LD50 dermal rabbit	> 5010 mg/kg	
LC50 inhalation rat (mg/l)	1.68 mg/l (Exposure time: 1 h)	
ATE US (oral)	238.000 mg/kg body weight	
ATE US (vapors)	1.680 mg/l/4h	
ATE US (dust, mist)	1.680 mg/l/4h	
Acetic acid, glacial (64-19-7)		
LD50 oral rat	3310 mg/kg	
LD50 dermal rabbit	1060 mg/kg	
LC50 inhalation rat (mg/l)	11.4 mg/l/4h	
ATE US (oral)	3310.000 mg/kg body weight	
ATE US (dermal)	1060.000 mg/kg body weight	
ATE US (vapors)	11.400 mg/l/4h	
ATE US (dust, mist)	11.400 mg/l/4h	
Hydrochloric acid, anhydrous (7647-01-0)		
LD50 oral rat	238 - 277 mg/kg	
LD50 dermal rabbit	> 5010 mg/kg	
LC50 inhalation rat (mg/l)	1.68 mg/l (Exposure time: 1 h)	
ATE US (oral)	238.000 mg/kg body weight	
ATE US (vapors)	1.680 mg/l/4h	
ATE US (dust, mist)	1.680 mg/l/4h	

05/13/2020 EN (English US) SDS ID: M017501SG1 5/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1.1 (conc: 0.1 N (solution)

Serious eye damage/irritation : Causes serious eye damage.

pH: 1.1 (conc: 0.1 N (solution)

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Hydrochloric acid, 1 M in acetic acid

IARC group 3 - Not classifiable

Hydrochloric acid, anhydrous (7647-01-0)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough,

shortness of breath, headache, nausea.

SECTION 12: Ecological information

12.1. Toxicity

Acetic acid, glacial (64-19-7)	
LC50 fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Acetic acid, glacial (64-19-7)	
Log Pow	-0.31 (at 20 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

Waste disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Recycle the material as far as possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2920 Corrosive liquids, flammable, n.o.s., 8, II

UN-No.(DOT) : UN2920

Proper Shipping Name (DOT) : Corrosive liquids, flammable, n.o.s.

Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

05/13/2020 EN (English US) SDS ID: M017501SG1 6/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hazard labels (DOT) : 8 - Corrosive

3 - Flammable liquid





DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243

DOT Symbols

: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

T11 - 6 178.274(d)(2) Normal...... 178.275(d)(3)

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

DOT Vessel Stowage Location : C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 25 - Shade from radiant heat,40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number : 125 (UN1050);157 (UN1789)

Other information : No supplementary information available.

TDG

No additional information available

Transport by sea

UN-No. (IMDG)

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : II - substances presenting medium danger

Air transport

UN-No. (IATA)

Proper Shipping Name (IATA) Corrosive liquid, flammable, n.o.s.

Class (IATA) : 8 - Corrosives Packing group (IATA) : II - Medium Danger

SDS ID: M017501SG1 05/13/2020 EN (English US) 7/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

Hydrochloric acid, 1 M in acetic acid		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313		
SARA Section 302 Threshold Planning Quantity (TPQ) 500 (gas only)		
SARA Section 313 - Emission Reporting 1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)		

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Hydrochloric acid, anhydrous	CAS No 7647-01-0	1 - 5%
Acetic acid, glacial (64-19-7)		
CERCLA RQ	5000 lb	
Hydrochloric acid, anhydrous (7647-01-0)		
Listed on the United States SARA Section 302 Subject to reporting requirements of United States	es SARA Section 313	
CERCLA RQ	5000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 (gas only)	
SARA Section 313 - Emission Reporting	1.0 % (acid aerosols including mists, vapors, gas, particle size)	fog, and other airborne forms of any

15.2. International regulations

CANADA

Hydrochloric acid, 1 M in acetic acid		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material	
Acetic acid, glacial (64-19-7)		
Listed on the Canadian DSL (Domestic Sustance	s List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material	
Hydrochloric acid, anhydrous (7647-01-0)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class A - Compressed Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material	

EU-Regulations

No additional information available

National regulations

Hydrochloric acid, 1 M in acetic acid

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

05/13/2020 SDS ID: M017501SG1 EN (English US) 8/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acetic acid, glacial (64-19-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Hydrochloric acid, anhydrous (7647-01-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

15.3. US State regulations

Hydrochloric acid, 1 M in acetic acid	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Acetic acid, glacial (64-19-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Hydrochloric acid, anhydrous (7647-01-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

05/13/2020 EN (English US) SDS ID: M017501SG1 9/10

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

kt of Fr-piliases.		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4	
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Flam. Liq. 3	Flammable liquids Category 3	
Liquefied gas	Gases under pressure Liquefied gas	
Met. Corr. 1	Corrosive to metals Category 1	
Simple Asphy	Simple Asphyxiant	
Skin Corr. 1A	Skin corrosion/irritation Category 1A	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H226	Flammable liquid and vapor	
H280	Contains gas under pressure; may explode if heated	
H290	May be corrosive to metals	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H380	May displace oxygen and cause rapid suffocation	
H402	Harmful to aquatic life	

NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was

given.

NFPA fire hazard

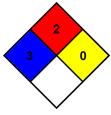
: 2 - Must be moderately heated or exposed to relatively high

temperature before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health

- : 3 Serious Hazard Major injury likely unless prompt action is taken and medical treatment is given
 - * Chronic (long-term) health effects may result from repeated overexposure

Flammability

: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.

05/13/2020 EN (English US) SDS ID: M017501SG1 10/10