

## Safety Data Sheet M017501SC

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

Date of issue: 09/12/2019 Version: 1.0

## **SECTION 1: Identification**

1.1. Identification

Product form : Substance

Substance name : Hydrochloric acid, 3 M in cyclopentyl methyl ether

CAS No : 7647-01-0
Product code : M017-5-01SC

Formula : CIH

Synonyms : Hydrochloric acid in cyclopentyl methyl ether; Hydrochloric acid in CPME

Other means of identification : MFCD00011324

#### 1.2. 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

#### 1.4. Emergency telephone number

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

## SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

## Classification (GHS-US)

Flam. Liq. 2 H225 - Highly flammable liquid and vapour Met. Corr. 1 H290 - May be corrosive to metals

Acute Tox. 4 (Oral) H302 - Harmful if swallowed Acute Tox. 3 (Inhalation:vapour) H331 - Toxic if inhaled

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

Eye Dam. 1 H318 - Causes serious eye damage STOT SE 3 H335 - May cause respiratory irritation STOT SE 1 H370 - Causes damage to organs Aquatic Acute 3 H402 - Harmful to aquatic life

Aquatic Chronic 3 H412 - Harmful to aquatic life with long lasting effects

Full text of H-phrases: see section 16

#### 2.2. Label elements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS05







GHS02

GHS06

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H290 - May be corrosive to metals H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H335 - May cause respiratory irritation H370 - Causes damage to organs

H412 - Harmful to aquatic life with long lasting effects

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

P233 - Keep container tightly closed

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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

P270 - Do not eat, drink or smoke when using this product

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+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell

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 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

P307+P311 - If exposed: Call a poison center/doctor P310 - Immediately call a POISON CENTER or doctor/ physician

P311 - Call a POISON CENTER or doctor/physician

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

P330 - Rinse mouth

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

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Name : Hydrochloric acid, 3 M in cyclopentyl methyl ether

CAS No : 7647-01-0

Name	Product identifier	%	Classification (GHS-US)
Cyclopentyl methyl ether	(CAS No) 5614-37-9	70 - 90	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Hydrochloric acid, anhydrous	(CAS No) 7647-01-0	10 - 20	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

### 3.2. Mixture

Not applicable

#### **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.

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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.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Use extinguishing media appropriate for surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

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

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

5.3. Advice for firefighters

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

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

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

## **SECTION 6: Accidental release measures**

#### 6.1. 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.

## 6.1.2. For emergency responders

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

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

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

level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.

6.2. Environmental precautions

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

#### 6.3. 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.

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

explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel

spills into appropriate container for disposal. Ventilate area.

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

#### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

## 7.1. 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.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product. Always wash hands after handling the product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

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

contents under inert gas.

Incompatible materials : Refer to Section 10 on Incompatible Materials.

Storage temperature : 2 - 8 °C Use explosion proof refrigerator

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

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Hydrochloric acid, 3 M in cyclopentyl methyl ether (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
Hydrochloric acid, anhydrous (7647-01-0)		
Hydrochloric acid, anhydrou	s (7647-01-0)	
Hydrochloric acid, anhydrou ACGIH	s (7647-01-0) ACGIH Ceiling (ppm)	2 ppm
	,	2 ppm URT irr
ACGIH	ACGIH Ceiling (ppm)	''

#### 8.2. Exposure controls

Molecular mass

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.

: 36.461 g/mol

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 : Liquid Color : Clear

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 :  $106 \, ^{\circ}\text{C}$ Flash point :  $10 \, ^{\circ}\text{C}$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) No data available **Explosion limits** : No data available : No data available Explosive properties : No data available Oxidizing properties Vapor pressure : (at 20 °C) Relative density No data available : No data available Relative vapor density at 20 °C

Specific gravity / density : 0.89 g/cm³ (at 25 °C)

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Solubility : Water: 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

No additional information available

#### 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

Alkali metals. Amines. Bases. Fluorine. Oxidizing agents.

#### 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 : Oral: Harmful if swallowed. Dermal: Not classified. Inhalation:vapour: Toxic if inhaled.

· ·		
Hydrochloric acid, 3 M in cyclopentyl m	nethyl ether (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	
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	
Cyclopentyl methyl ether (5614-37-9)		
ATE US (oral)	500.000 mg/kg body weight	
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	

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Hydrochloric acid, 3 M in cyclopentyl methyl ether (7647-01-0)		
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. Causes damage to organs.

Specific target organ toxicity (repeated : Not classified

exposure)

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

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 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 : UN2924 Flammable liquids, corrosive, n.o.s., 3, II

UN-No.(DOT) : UN2924

Proper Shipping Name (DOT) : Flammable liquids, corrosive, n.o.s.

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

8 - Corrosive



Packing group (DOT) : II - Medium Danger

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Marine pollutant : Yes (IMDG only)



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) : IB2 - Authorized IBCs: Metal (31A, 31B and 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.

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

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) : 150
DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 5 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

DOT Vessel Stowage Other : 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) : 2924

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

Class (IMDG) : 3 - Flammable liquids

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

### Air transport

UN-No. (IATA) : 2924

Proper Shipping Name (IATA) : Flammable liquid, corrosive, n.o.s.

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

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## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Hydrochloric acid, 3 M in cyclopentyl methyl ether (7647-01-0)		
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 airborn 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	10 - 20%
Hydrochloric acid, anhydrous (7647-01-0)			
Listed on the United States SARA Section 302 Subject to reporting requirements of United Sta	=	13	
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, fog, and other airborne forms of any particle size)		
Cyclopentyl methyl ether (5614-37-9)			
EPA TSCA Regulatory Flag		a commenced PMN substance. a substance that is identified in	a proposed or final Significant New Uses

#### 15.2. International regulations

CANADA	
Hydrochloric acid, 3 M in cyclopentyl	methyl ether (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
Hydrochloric acid, anhydrous (7647-0	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
Cyclopentyl methyl ether (5614-37-9)	
Listed on the Canadian DSL (Domestic	Sustances List)

## **EU-Regulations**

No additional information available

## Cyclopentyl methyl ether (5614-37-9)

Listed on ELINCS (European List of Notified Chemical Substances)

#### National regulations

## Hydrochloric acid, 3 M in cyclopentyl methyl ether (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

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## 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

## Cyclopentyl methyl ether (5614-37-9)

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

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

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations

## Hydrochloric acid, 3 M in cyclopentyl methyl ether (7647-01-0)

State or local regulations U

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) - Environment

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

#### 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**

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#### Full text of H-phrases:

Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
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
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H370	Causes damage to organs
H380	May displace oxygen and cause rapid suffocation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

2

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

: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

Physical

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.

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