

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 2106101

Issue date: 5/11/2022 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Substance Substance name : 2-Ethoxyethanol

Chemical name : 2-ethoxyethanol, ethylene glycol monoethyl ether

 CAS-No.
 : 110-80-5

 Product code
 : 2106-1-01

 Formula
 : C4H10O2

 Other means of identification
 : MFCD00002869

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

Manufacture of substances

Scientific research and development

#### 1.3. Supplier

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

#### **GHS US classification**

Flammable liquids Category 3 H226 Flammable liquid and vapor Acute toxicity (oral) Category 4 H302 Harmful if swallowed Acute toxicity (dermal) Category 4 H312 Harmful in contact with skin Acute toxicity (inhalation) Category 3 H331 Toxic if inhaled Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation Specific target organ toxicity - Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness Specific target organ toxicity - Single exposure, Category 3, H335 May cause respiratory irritation

Respiratory tract irritation

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

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

H302+H312 - Harmful if swallowed or in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

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.

P261 - Avoid breathing 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.

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

P302+P352 - If on skin: Wash with plenty of soap and water

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.

P311 - Call a POISON CENTER or doctor/physician

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

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

P322 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

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

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.

P501 - Dispose of contents/container to an approved waste disposal plant

#### 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

#### 3.1. Substances

Substance type : Mono-constituent

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Name	Product identifier	%	GHS US classification
2-Ethoxyethanol (Main constituent)	CAS-No.: 110-80-5		Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335

Full text of hazard classes and H-statements: see section 16

#### 3.2. Mixtures

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. 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 (acute and delayed)

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

and/or in section 11.

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media

appropriate for surrounding fire.

## 5.2. Specific hazards arising from the chemical

Fire hazard : Thermal decomposition generates: Carbon oxides.

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. Special protective equipment and precautions for fire-fighters

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".

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#### **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. 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.

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

Methods for cleaning up

## **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. E

: 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.

#### 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. Air sensitive. Keep

contents under inert gas.

Incompatible materials : Refer to Section 10 on Incompatible Materials.

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

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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

2-Ethoxyethanol (110-80-5)	2-Ethoxyethanol (110-80-5)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	5 ppm		
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route		
USA - ACGIH - Biological Exposure Indices			
BEI	100 mg/g Kreatinin Parameter: 2-Ethoxyacetic acid - Medium: urine - Sampling time: end of shift at end of workweek		
USA - OSHA - Occupational Exposure Limits			
OSHA PEL TWA [1]	740 mg/m³		
OSHA PEL TWA [2]	200 ppm		
Limit value category (OSHA)	prevent or reduce skin absorption		
USA - IDLH - Occupational Exposure Limits			
IDLH [ppm]	500 ppm		
USA - NIOSH - Occupational Exposure Limits			
NIOSH REL TWA	1.8 mg/m³		
NIOSH REL TWA [ppm]	0.5 ppm		
US-NIOSH chemical category	SK: SYS Apr 2011		

## 8.2. Appropriate engineering 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.

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#### 8.3. Individual protection measures/Personal protective equipment

#### 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 : Liquid

Appearance : Colorless liquid.
Color : Colorless

Odor : No data available
Odor threshold : 24 ppm (May)

24 ppm (May)90 mg/m³ (May)

pH : No data available

Melting point : -90 °C

Freezing point : No data available

Boiling point :  $135 \,^{\circ}\text{C}$ Flash point :  $42 \,^{\circ}\text{C}$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available : 3.8 mm Hg (@ 20 °C) Vapor pressure Relative vapor density at 20 °C : No data available Relative density No data available Density 0.93 g/ml (@ 25 °C) Molecular mass 90.121 g/mol : No data available Solubility

Partition coefficient n-octanol/water (Log Pow) : 0.32 Auto-ignition temperature : 235 °C

Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

Refractive index : 1.407 (@ 20 °C)

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## **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

Copper and its alloys. Strong 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.

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Toxic if inhaled.

2-Ethoxyethanol (110-80-5)	
LD50 oral rat	2800 mg/kg
LD50 dermal rabbit	3300 mg/kg
LC50 Inhalation - Rat [ppm]	4267 ppm/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

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

STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

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

and/or in section 11.

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

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### **SECTION 12: Ecological information**

#### 12.1. Toxicity

2-Ethoxyethanol (110-80-5)	
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	> 10000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

2-Ethoxyethanol (110-80-5)	
Partition coefficient n-octanol/water (Log Pow)	0.32

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Regional legislation (waste) : U.S. - RCRA (Resource Conservation Recovery Act) - U Series Wastes - Acutely Toxic Wastes

Other Hazardous Characteristics. U.S. - RCRA (Resource Conservation Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA (Resource Conservation Recovery Act) - Hazardous

Constituents - Appendix VIII to 40 CFR 261.

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

Product/Packaging 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**

## 14.1. UN number

DOT NA No : UN1171 UN-No. (TDG) : Not applicable

UN-No. (IMDG) : 1171 UN-No. (IATA) : 1171

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Ethylene glycol monoethyl ether

Proper Shipping Name (TDG) : Not applicable

Proper Shipping Name (IMDG) : ETHYLENE GLYCOL MONOETHYL ETHER

Proper Shipping Name (IATA) : Ethylene glycol monoethyl ether

#### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 3

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Hazard labels (DOT)



#### **TDG**

Transport hazard class(es) (TDG) : Not applicable

#### **IMDG**

Transport hazard class(es) (IMDG) : 3 : 3 Hazard labels (IMDG)



#### IATA

Transport hazard class(es) (IATA) Hazard labels (IATA) : 3



#### 14.4. Packing group

Packing group (DOT) : 111

Packing group (TDG) : Not applicable

Packing group (IMDG) : III Packing group (IATA) : III

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

#### DOT

UN-No.(DOT) : UN1171

DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the

> bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this

subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242

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DOT Quantity Limitations Passenger aircraft/rail (49 : 60 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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

passenger vessel.

**TDG** 

Emergency Response Guide (ERG) Number : 127

**IMDG** 

Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1Packing instructions (IMDG): P001, LP01IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : A

Flash point (IMDG) : 40°C c.c.

Properties and observations (IMDG) : Colourless liquid. Flashpoint: 40°C c.c. Explosive limits: 1.7% to 15.6% Miscible with water.

**IATA** 

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) 355 PCA max net quantity (IATA) 60L CAO packing instructions (IATA) 366 CAO max net quantity (IATA) 220L ERG code (IATA) 3L

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

2-Ethoxyethanol (110-80-5)		
Subject to reporting requirements of United States SARA Section 313		
EPA TSCA Regulatory Flag S - S - indicates a substance that is identified in a final Significant New Use Rule.		
CERCLA RQ	1000 lb	

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

2-Ethoxyethanol CAS-No. 110-80-5 100%

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.

and 40 Of K Fait 372.		
2-Ethoxyethanol	CAS-No. 110-80-5	100%

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#### 15.2. International regulations

#### CANADA

#### 2-Ethoxyethanol (110-80-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

## **2-Ethoxyethanol (110-80-5)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### **National regulations**

#### 2-Ethoxyethanol (110-80-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

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

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

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

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

## 15.3. US State regulations

2-Ethoxyethanol (110-80-5)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	Yes
Maximum allowable dose level (MADL)	750 μg/day oral
State or local regulations	U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List



This product can expose you to 2-Ethoxyethanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## **SECTION 16: Other information**

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Full text of H-phra	ases
H226	Flammable liquid and vapor

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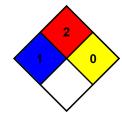
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Full text of H	Full text of H-phrases	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H331	Toxic if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur Flammability : 2 Moderate Hazard - Materials which must be moderately

: 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.

Safety Data Sheet (SDS), USA

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.