

Safety Data Sheet 1300203 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/27/2017 Version: 1.0

SECTION 1: Identification 1.1. Identification				
		: Substance		
		: Hexafluoro-1,3-butadiene		
		: 685-63-2		
Product code		: 1300-2-03		
Formula		: C4F6		
Synonyms		: 1,1,2,3,4,4-Hexafluorobuta-1,3-diene		
Other means of identifica	ation	: MFCD00039273		
1.2. Relevant iden	ntified us	es of the substance or mixture and uses advised against		
		: Laboratory chemicals Manufacture of substances Scientific research and development		
1.3. Details of the	supplie	of the safety data sheet		
SynQuest Laboratories, P.O. Box 309 Alachua, FL 32615 - Uni T (386) 462-0788 - F (38 info@synquestlabs.com 1.4. Emergency te	ited State 36) 462-7 - <u>www.sy</u>	097 /nquestlabs.com		
	elephone			
Emergency number		: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazar	SECTION 2: Hazard(s) identification			
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		entification ubstance or mixture		
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2.1. Classification	of the s			
2.1. Classification Classification (GHS-US	n of the s	ubstance or mixture		
2.1. Classification Classification (GHS-US Simple Asphy	6) H380	ubstance or mixture May displace oxygen and cause rapid suffocation		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1	6) H380 - H220 -	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1 Liquefied gas	6) H380 - H220 - H280 -	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas Contains gas under pressure; may explode if heated		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1 Liquefied gas Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 3	n of the s H380 - H220 - H280 - H302 -	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas Contains gas under pressure; may explode if heated Harmful if swallowed		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1 Liquefied gas Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal)	of the s H380 H220 H280 H280 H302 H312	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas Contains gas under pressure; may explode if heated Harmful if swallowed Harmful in contact with skin		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1 Liquefied gas Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 3 (Inhalation)	6) H380 - H220 - H280 - H302 - H312 - H331 -	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas Contains gas under pressure; may explode if heated Harmful if swallowed Harmful in contact with skin Toxic if inhaled		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1 Liquefied gas Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 3 (Inhalation) Skin Irrit. 2	 of the s H380 H220 H280 H302 H312 H312 H315 	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas Contains gas under pressure; may explode if heated Harmful if swallowed Harmful in contact with skin Toxic if inhaled Causes skin irritation		
2.1. Classification Classification (GHS-US Simple Asphy Flam. Gas 1 Liquefied gas Acute Tox. 4 (Oral) Acute Tox. 4 (Dermal) Acute Tox. 3 (Inhalation) Skin Irrit. 2 Eye Irrit. 2A	 of the s a) H380 H220 H280 H302 H312 H312 H315 H315 H319 	ubstance or mixture May displace oxygen and cause rapid suffocation Extremely flammable gas Contains gas under pressure; may explode if heated Harmful if swallowed Harmful in contact with skin Toxic if inhaled Causes skin irritation Causes serious eye irritation		

GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS04 GHS06 GHS07 GHS08
Signal word (GHS-US)	GHS02 GHS04 GHS06 GHS07 GHS08 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	

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	 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 H372 - Causes damage to organs (central nervous system, kidneys, respiratory system, skin) through prolonged or repeated exposure H380 - May displace oxygen and cause rapid suffocation
Precautionary statements (GHS-US)	 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P260 - Do not breathe dust/fume/gas/mist/vapors/spray 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 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 if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P312 - Call a POISON CENTER or doctor/physician if you feel unwell P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely P381 - Eliminate all ignition sources if safe to do so P403 + P203 - Store in a well-ventilated place. Keep container tightly closed P405 + P303 - Protect from sunlight. Store in a well-ventilated place 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

Substance type

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SECTION 310	Composition/in	tormation on	Indredients

Substance 3.1.

: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
Hexafluoro-1,3-butadiene (Main constituent)	(CAS No) 685-63-2	<= 100	Simple Asphy, H380 Flam. Gas 1, H220 Liquefied gas, H280 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, H335 STOT RE 1, H372

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

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First-aid measures after ingestion :	Due to its physical form, exposure to this chemical is not likely. 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 :	May cause drowsiness or dizziness.	
4.3. Indication of any immediate medical at	tention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media :	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.	
5.2. Special hazards arising from the subst	ance or mixture	
Fire hazard :	Thermal decomposition generates: Carbon oxides. Hydrogen fluoride.	
Explosion hazard :	Contains gas under pressure; may explode if heated. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.	
5.3. Advice for firefighters		
	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 measure	res	
6.1. Personal precautions, protective equip	ment and emergency procedures	
General measures :	Evacuate unnecessary personnel. Ensure adequate air ventilation. May cause suffocation by reducing oxygen available for breathing. 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		
	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	
	Stop leak if safe to do so.	
5.1	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 :	Pressurized container: Do not pierce or burn, even after use. Handle empty containers with care because residual vapors are flammable. Close valve after each use and when empty.	
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, gas, 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.	
Safe handling of the gas receptacle :	Securely chain cylinders when in use and protect against physical damage.	
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		
Technic	al measures	: Comply with applicable regulations.	
Storage	conditions	 Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Keep container closed when not in use. Keep away from ignition sources. 	
Incompa	atible materials	: Refer to Section 10 on Incompatible Materials.	
Storage	area	: Store in dry, cool, well-ventilated area.	

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating gases may be released. Gas detectors should be used when toxic gases may be released.
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.
Thermal hazard protection	: Cold insulating gloves.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Gas
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: -132.1 °C
Freezing point	: No data available
Boiling point	: 6 - 7 °C
Flash point	: No data available
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	: 25 psia (@ 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.553 g/ml (@ -20 °C)
Molecular mass	: 162.03 g/mol
Solubility	: No data available
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

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9.2. Other information Refractive index	: 1.378 (@ -20 °C)
SECTION 10: Stability and reactivity	r
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	prage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Protect from sunlight. Do not expose to tempera	tures exceeding 50 °C Keep away from heat, sparks and flame.
10.5. Incompatible materials	
Alkali metals. Finely divided metals (Al, Mg, Zn).	. Strong oxidizing agents.
10.6. Hazardous decomposition products	S
SECTION 11: Toxicological informat 11.1. Information on toxicological effects	
11.1. Information on toxicological effects	5
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Serious exe damage/irritation	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation.
Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity State	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified Not classified
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
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11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity State	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified State and the state and the sta
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Causes damage to organs (central nervous system, kidneys, respiratory system, skin) through prolonged or repeated exposure. Not classified Not classified May cause drowsiness or dizziness.
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Symptoms/injuries after inhalation Symptoms/injuries after inhalation	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified May cause respiratory irritation. Causes damage to organs (central nervous system, kidneys, respiratory system, skin) through prolonged or repeated exposure. Not classified Not classified May cause drowsiness or dizziness.
11.1. Information on toxicological effects Acute toxicity Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Symptoms/injuries after inhalation SECTION 12: Ecological information	 Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified Not classified State and the system of the sys

Persistence and degradability 12.2. No additional information available

Bioaccumulative potential 12.3. No additional information available

12.4. Mobility in soil

No additional information available

Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal considerations		
13.1.	Waste treatment methods	
Waste tre	eatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste di	sposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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	: Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT)	
n accordance with DOT	
ransport document description	: UN3160 Liquefied gas, toxic, flammable, n.o.s. Inhalation Hazard Zone C, 2.3
JN-No.(DOT)	: UN3160
Proper Shipping Name (DOT)	: Liquefied gas, toxic, flammable, n.o.s. Inhalation Hazard Zone C
ransport hazard class(es) (DOT)	: 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115
lazard labels (DOT)	: 2.3 - Poison gas 2.1 - Flammable gas
	INHALATION HAZARD
	2 2
OOT Packaging Non Bulk (49 CFR 173.xxx)	: 304
OOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
OOT Symbols	: G - Identifies PSN requiring a technical name
OOT Special Provisions (49 CFR 172.102)	: 3 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone C (see 173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.
	B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.
OOT Packaging Exceptions (49 CFR 173.xxx)	: None
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: Forbidden
OOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: Forbidden
OOT Vessel Stowage Location	: D - The material must be stowed "on deck only" 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, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
OOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
DG	
lo additional information available	
ransport by sea	
JN-No. (IMDG)	: 3160
Proper Shipping Name (IMDG)	: LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S.
Class (IMDG)	: 2 - Gases
Air transport	
JN-No. (IATA)	: 3160
Proper Shipping Name (IATA)	: Liquefied gas, toxic, flammable, n.o.s.
Class (IATA)	: 2
SECTION 15: Regulatory information	n
5.1. US Federal regulations	

Hexafluoro-1,3-butadiene (685-63-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Hexafluoro-1,3-butadiene (685-63-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Hexafluoro-1,3-butadiene (685-63-2)

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 the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

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

SECTION 16: Other information

Full text of H-phrases:

text of it philases.	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Gas 1	Flammable gases Category 1
Liquefied gas	Gases under pressure Liquefied gas
Simple Asphy	Simple Asphyxiant
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
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
H372	Causes damage to organs through prolonged or repeated exposure
H380	May displace oxygen and cause rapid suffocation

NFPA health hazard

NFPA fire hazard

NFPA reactivity

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

: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

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



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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
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.