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# 2-Fluoroisobutyric acid

Safety Data Sheet 2121357 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/02/2017 Revision date: 04/04/2019 Version: 1.1

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Fluoroisobutyric acid		
CAS No	: 63812-15-7		
Product code	: 2121-3-57		
Formula	: C4H7FO2		
Synonyms	: 2-Fluoro-2-methylpropionic a	cid	
Other means of identification	: MFCD03452788		
1.2. Relevant identified uses of	the substance or mixture and uses adv	ised against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances		
	Scientific research and deve	opment	
1.3. Details of the supplier of the	e safety data sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309			
Alachua, FL 32615 - United States of A T (386) 462-0788 - F (386) 462-7097	merica		
info@synquestlabs.com - www.synque	stlabs.com		
1.4. Emergency telephone num	ber		
Emergency number	: (844) 523-4086 (3E Compan	y - Account 10069)	
SECTION 2: Hazard(s) identif	ication		
2.1. Classification of the substa	ince or mixture		
Classification (GHS-US)			
Acute Tox. 3 (Oral) H30	01 - Toxic if swallowed		
	1 - Toxic in contact with skin		
	80 - Fatal if inhaled 14 - Causes severe skin burns and eye da	mage	
		mage	
Eye Dam. 1 H3'	8 - Causes serious eye damage		
	<ul><li>8 - Causes serious eye damage</li><li>35 - May cause respiratory irritation</li></ul>		
STOT SE 3 H33			
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements			
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling		▲	
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements			
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STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling			
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	35 - May cause respiratory irritation		
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)	35 - May cause respiratory irritation	GHS07	
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)	<ul> <li>B5 - May cause respiratory irritation</li> <li>: GHS05 GHS05 GHS06 : Danger</li> </ul>		
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)	<ul> <li>B5 - May cause respiratory irritation</li> <li>:</li> <li:< li=""> <li>:</li> <li:< li=""> <li>:</li> <li:< li=""> <li>:</li> <li:< li=""> <li:< li=""> <li:< li=""> <li>:</li> <li:< li=""> <li:< li=""></li:<></li:<></li:<></li:<></li:<></li:<></li:<></li:<></ul>	wed or in contact with skin	
STOT SE 3 H33 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>B5 - May cause respiratory irritation</li> <li>: GHS05 GHS05 GHS06 : Danger</li> </ul>	wed or in contact with skin	
STOT SE 3 H33 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>B5 - May cause respiratory irritation</li> <li>:</li></ul>	wed or in contact with skin urns and eye damage	
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)	<ul> <li>35 - May cause respiratory irritation</li> <li>: GHS05 GHS05 : Danger</li> <li>: H301+H311 - Toxic if swaller H314 - Causes severe skin br H330 - Fatal if inhaled H335 - May cause respirator</li> <li>: P260 - Do not breathe fumes</li> </ul>	wed or in contact with skin urns and eye damage / irritation , mist, spray, vapors	
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>35 - May cause respiratory irritation</li> <li>:</li></ul>	wed or in contact with skin urns and eye damage / irritation , mist, spray, vapors after handling	
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>Hay cause respiratory irritation</li> <li>GHS05</li> <li>Danger</li> <li>H301+H311 - Toxic if swalld H314 - Causes severe skin to H330 - Fatal if inhaled H335 - May cause respirator</li> <li>P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s</li> </ul>	wed or in contact with skin urns and eye damage y irritation , mist, spray, vapors after handling noke when using this product	
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>Hay cause respiratory irritation</li> <li> GHS05 </li> <li> Danger </li> <li> H301+H311 - Toxic if swalled H314 - Causes severe skin b H330 - Fatal if inhaled H335 - May cause respirator </li> <li> P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or </li> </ul>	wed or in contact with skin urns and eye damage y irritation , mist, spray, vapors after handling noke when using this product	on
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>May cause respiratory irritation</li> <li>: GHS05 GHS05 GHS06 </li> <li>: Danger</li> <li>: H301+H311 - Toxic if swalled H314 - Causes severe skin b H330 - Fatal if inhaled H335 - May cause respirator</li> <li>: P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P280 - Wear protective glove P284 - In case of inadequat</li> </ul>	wed or in contact with skin urns and eye damage / irritation , mist, spray, vapors after handling noke when using this product in a well-ventilated area s/protective clothing/eye protection/face protecti e ventilation wear respiratory protection	on
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>May cause respiratory irritation</li> <li>: GHS05 GHS05 GHS05 GHS06</li> <li: danger<="" li=""> <li>: Danger</li> <li>: H301+H311 - Toxic if swaller H314 - Causes severe skin th H330 - Fatal if inhaled H335 - May cause respirator</li> <li>: P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P280 - Wear protective glove P284 - In case of inadequat P301+P310 - If swallowed: In</li> </li:></ul>	wed or in contact with skin urns and eye damage / irritation , mist, spray, vapors after handling noke when using this product in a well-ventilated area s/protective clothing/eye protection/face protecti e ventilation wear respiratory protection nmediately call a poison center/doctor/	on
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>35 - May cause respiratory irritation</li> <li>: GHS05 GHS05 GHS05 GHS06</li> <li: danger<="" li=""> <li>: H301+H311 - Toxic if swaller H314 - Causes severe skin br H330 - Fatal if inhaled H335 - May cause respirator</li> <li>: P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P280 - Wear protective glove P284 - In case of inadequat P301+P310 - If swallowed: In P301+P330+P331 - If swallowed</li> </li:></ul>	wed or in contact with skin urns and eye damage / irritation , mist, spray, vapors after handling noke when using this product in a well-ventilated area s/protective clothing/eye protection/face protecti e ventilation wear respiratory protection	on
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STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>May cause respiratory irritation</li> <li> GHS05 </li> <li> GHS05 </li> <li> GHS06 </li> <li> Danger </li> <li> H301+H311 - Toxic if swalled H330 - Fatal if inhaled H330 - Fatal if inhaled H335 - May cause respirator </li> <li> P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P280 - Wear protective glove P284 - In case of inadequat P301+P330 - F331 - If swalled P302+P352 - If on skin: Was P303+P361+P353 - If on ski skin with water/shower</li></ul>	wed or in contact with skin urns and eye damage y irritation , mist, spray, vapors after handling noke when using this product in a well-ventilated area s/protective clothing/eye protection/face protecti e ventilation wear respiratory protection nmediately call a poison center/doctor/ wed: rinse mouth. Do NOT induce vomiting h with plenty of soap and water h (or hair): Take off immediately all contaminated	l clothing. Rinse
STOT SE 3       H33         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)         Signal word (GHS-US)         Hazard statements (GHS-US)	<ul> <li>May cause respiratory irritation</li> <li> GHS05 </li> <li> GHS05 </li> <li> GHS06 </li> <li> Danger </li> <li> H301+H311 - Toxic if swalled H330 - Fatal if inhaled H330 - Fatal if inhaled H335 - May cause respirator </li> <li> P260 - Do not breathe fumes P264 - Wash skin thoroughly P270 - Do not eat, drink or s P271 - Use only outdoors or P280 - Wear protective glove P284 - In case of inadequat P301+P330 - F331 - If swalled P302+P352 - If on skin: Was P303+P361+P353 - If on ski skin with water/shower</li></ul>	wed or in contact with skin urns and eye damage / irritation , mist, spray, vapors after handling noke when using this product in a well-ventilated area s/protective clothing/eye protection/face protecti e ventilation wear respiratory protection nmediately call a poison center/doctor/ wed: rinse mouth. Do NOT induce vomiting h with plenty of soap and water	l clothing. Rinse

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	P363 - V P403+P P405 - S	Rinse mouth Fake off immediately all contaminated Vash contaminated clothing before ro 233 - Store in a well-ventilated place Store locked up Dispose of contents/container to an a	d clothing euse . Keep container	
2.3. Other hazards				
No additional information available 2.4. Unknown acute toxicity (GHS U	S)			
Not applicable	0)			
SECTION 3: Composition/informa	ation on ingr	edients		
3.1. Substance	5			
Substance type	: Mono-co	onstituent		
Name	F	Product identifier	%	Classification (GHS-US)
2-Fluoroisobutyric acid (Main constituent)	(	CAS No) 63812-15-7	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1B, 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				
I.1. Description of first aid measure				
First-aid measures general	where p	of accident or if you feel unwell, seek ossible). Move the affected personne	el away from the	contaminated area.
First-aid measures after inhalation	: Remove respirati	e person to fresh air and keep comfor on. Get immediate medical advice/at	table for breathi tention.	ng. If not breathing, give artificial
First-aid measures after skin contact		ith plenty of soap and water. Remove advice/attention.	e contaminated of	clothing and shoes. Get immediate
First-aid measures after eye contact		ately flush eyes thoroughly with water and easy to do. Continue rinsing. Ge		
First-aid measures after ingestion		induce vomiting. Never give anythin out with water. Get immediate medica		
I.2. Most important symptoms and e	effects, both ac	ute and delayed		
Symptoms/injuries	2.2) and	st important known symptoms and ef I/or in section 11.		Ŭ (
Symptoms/injuries after inhalation		is destructive to tissue of the mucuo ss of breath, headache, nausea.	us membranes a	and upper respiratory tract. Cough
1.3. Indication of any immediate me	dical attention a	and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measure	es			
5.1. Extinguishing media				
Suitable extinguishing media		resistant foam. Carbon dioxide. Dry p iate for surrounding fire.	bowder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the	e substance or	mixture		
Fire hazard		decomposition generates: Carbon o		
Explosion hazard	: Risk of e containe	explosion if heated under confinemer ers.	nt. Use water spi	ray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	: In case	of fire: Evacuate area. Fight fire remo	otely due to the r	risk of explosion.

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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 measu	Ires	
6.1. Personal precautions, protective equi		
6.1.1. For non-emergency personnel No additional information available		
6.1.2. For emergency responders No additional information available		
6.2. Environmental precautions No additional information available		
6.3. Methods and material for containment No additional information available	and cleaning up	
6.4. Reference to other sections No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
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.	
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. Hygroscopic. Keep contents under inert gas.	
Incompatible 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.
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
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9.1. Information on bas	ic physical and chemical properties	
Physical state	: Liquid	
Appearance	: Clear liquid. Low melting solid.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 57 - 58 °C (@ 10 mm Hg)	

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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	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 106.1 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

### 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
No additional information available
10.5. Incompatible materials
Bases. Oxidizing agents. Reducing 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**

### Information on toxicological effects 11.1.

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Fatal if inhaled.

2-Fluoroisobutyric acid (63812-15-7)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
ATE US (vapors)	0.500 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

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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.

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects

No additional information available

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

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN2922 Corrosive liquids, toxic, n.o.s., 8, II
- : UN2922
- : Corrosive liquids, toxic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive 6.1 - Poison
- : II Medium Danger
- : 202
- : 243
- : G Identifies PSN requiring a technical name
- : B3 MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not 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.

DOT Packaging Exceptions (49 CFR 173.xxx)

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49 CFR 173.27)	: 1L		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L		
DOT Vessel Stowage Location	passenger vess passengers, or	sel carrying a number of passengers one passenger per each 3 m of over sels in which the number of passeng	nder deck" on a cargo vessel and on a s limited to not more than the larger of 25 erall vessel length; and (ii) "On deck only" or gers specified in paragraph (k)(2)(i) of this
DOT Vessel Stowage Other	: 40 - Stow "clea	r of living quarters"	
Other information		ary information available.	
TDG			
No additional information available			
Transport by sea			
UN-No. (IMDG)	: 2922		
Proper Shipping Name (IMDG)	: CORROSIVE L	IQUID, TOXIC, N.O.S.	
Class (IMDG)	: 8 - Corrosive su		
Packing group (IMDG)		presenting medium danger	
Air transport			
UN-No. (IATA)	: 2922		
Proper Shipping Name (IATA)	: Corrosive liquid	l, toxic, n.o.s.	
Class (IATA)	: 8 - Corrosives		
Packing group (IATA)	: II - Medium Dar	nger	
SECTION 15: Regulatory information			
15.1. US Federal regulations			
All components of this product are listed, or excl Substances Control Act (TSCA) inventory excep		on the United States Environmental	Protection Agency Toxic
		CAS No 63812-15-7	100%
2-Fluoroisobutyric acid			
2-Fluoroisobutyric acid This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting requirer and 40 CFR Part 372.	chemical or chemi ments of section 3	icals in excess of the applicable de 13 of Title III of the Superfund Amer	minimis concentration as specified in 40 and ments and Reauthorization Act of 1986
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting requirer and 40 CFR Part 372.	chemical or chem ments of section 3	icals in excess of the applicable de 13 of Title III of the Superfund Ame	minimis concentration as specified in 40 adments and Reauthorization Act of 1986
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting requirer and 40 CFR Part 372. 15.2. International regulations CANADA	chemical or chem ments of section 3	icals in excess of the applicable de 13 of Title III of the Superfund Ame	minimis concentration as specified in 40 ndments and Reauthorization Act of 1986
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting requirer and 40 CFR Part 372. <b>15.2. International regulations</b> CANADA	chemical or chem ments of section 3	icals in excess of the applicable de 13 of Title III of the Superfund Ame	minimis concentration as specified in 40 ndments and Reauthorization Act of 1986
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting requirer	chemical or chem ments of section 3	icals in excess of the applicable de 13 of Title III of the Superfund Ame	minimis concentration as specified in 40 ndments and Reauthorization Act of 1986
This product or mixture does not contain a toxic CFR §372.38(a) subject to the reporting requirer and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b>	chemical or chem ments of section 3	icals in excess of the applicable de 13 of Title III of the Superfund Ame	minimis concentration as specified in 40 ndments and Reauthorization Act of 1986

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

### 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

SE	СТ	<b>ON</b>	16: (	Other inforn	nation

Revision date

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Full text of H-phrases:		
Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H301	Toxic if swallowed	
H311	Toxic in contact with skin	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H330	Fatal if inhaled	
H335	May cause respiratory irritation	

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
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
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

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.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.