

Safety Data Sheet 2621338 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/28/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2,3,4,6-Tetrafluorobenzoic acid
CAS No	: 32890-92-9
Product code	: 2621-3-38
Formula	: C7H2F4O2
Other means of identification	: MFCD00039523
1.2. Relevant identified uses of the sub	stance 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.co	o <u>m</u>
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 r	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrita	ation
STOT SE 3 H335 - May cause respiratory in	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US)	:
•	
•	
•	
•	: CHS07
•	: GHS07 : Warning
Hazard pictograms (GHS-US)	: Warning : H315 - Causes skin irritation
Hazard pictograms (GHS-US) Signal word (GHS-US)	: Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label)
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention
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Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell 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 P403+P233 - Store in a well-ventilated place. Keep container tightly closed
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) 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 P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 P312 - Call a POISON CENTER or doctor/physician if you feel unwell 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 P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informati	on on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,3,4,6-Tetrafluorobenzoic acid (Main constituent)		(CAS No) 32890-92-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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 measures				
First-aid measures general		se of accident or if you feel unwell, seek a possible). Move the affected personnel		
irst-aid measures after inhalation	: Remo	ove person to fresh air and keep comforta ration. Get medical advice/attention.		
First-aid measures after skin contact	•	with plenty of soap and water. Get med	ical advice/atter	ition.
ïrst-aid measures after eye contact	: Imme	diately flush eyes thoroughly with water and easy to do. Continue rinsing. Get	for at least 15 m	inutes. Remove contact lenses, if
First-aid measures after ingestion	: Do N	OT induce vomiting. Never give anything nout with water. Get medical advice/atte	by mouth to an	
.2. Most important symptoms and effe	ects, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medic	al attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride.
.3. Advice for firefighters				
Protection during firefighting		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
SECTION 6: Accidental release mea				
6.1. Personal precautions, protective e				Acceleration and the Development
General measures		uate unnecessary personnel. Ensure ade he dust.	equate air ventila	ation. Avoid raising dust. Do not
6.1.1. For non-emergency personnel				
mergency procedures	: Only	qualified personnel equipped with suitable	e protective equ	lipment may intervene.
5.1.2. For emergency responders				
Protective equipment		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
6.2. Environmental precautions				
Avoid release to the environment. Notify author	rities if proc	luct enters sewers or public waters.		
.3. Methods and material for containn	nent and c	leaning up		
lethods for cleaning up	: Swee	p or shovel spills into appropriate contain	ner for disposal.	Minimize generation of dust.

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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	
Precautions for safe handling	Ensure good ventilation of the work station. Do not breathe dust. Avoid raising dust. 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, inclu	ding any incompatibilities
Storage conditions	: Keep container tightly closed.
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.		
Eye protection	: Chemical goggles or safety glasses. Face shield.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.		

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties

9.1. Information on basic physical and	a chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 97 - 98 °C
Freezing point	: No data available
Boiling point	: No data available
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	: 194.08 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			
No additi	No additional information available			
SECTI	ON 10: Stability and reactivity			
10.1.	Reactivity			
No additi	No additional information available			
10.2.	Chemical stability			
The prod	uct 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			
Strong bases. 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	: Not classified
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
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTIO	N 12: Ecological information			
12.1.	Toxicity			
No additio	No additional information available			
12.2.	Persistence and degradability			
No additio	nal information available			
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additio	nal information available			
12.5.	Other adverse effects			
No additional information available				

SECTION 13: Disposal considerations			
I3.1. Waste treatment methods			
Naste 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.		

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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

2,3,4,6-Tetrafluorobenzoic acid

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.

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15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

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

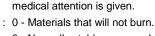
SECTION 16: Other information

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

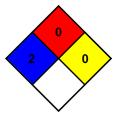
NFPA health hazard

NFPA fire hazard	
NFPA reactivity	



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

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt



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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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 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.