

Safety Data Sheet 2618201 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/19/2017 Version: 1.0

SECTION 1: Identification 1.1. Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Tetrafluoro-1,4-benzoquinone
CAS No	: 527-21-9
Product code	: 2618-2-01
Formula	: C6F4O2
Synonyms	: 2,3,5,6-Tetrafluorocyclohexa-2,5-diene-1,4-dione; p-Fluoranil
Other means of identification	: MFCD00001592
.2. Relevant identified uses of the	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
I.3. Details of the supplier of the sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
	bry irritation
2.2. Label elements	
2.2. Label elements GHS-US labeling	
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	GHS07
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	: GHS07 : Warning
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)	GHS07
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	: GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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o addi	Other hazards				
	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
lot app	licable				
SECT	ION 3: Composition/informatio	n on in	gredients		
.1.	Substance				
Substar	nce type	: Mono	p-constituent		
Name			Product identifier	%	Classification (GHS-US)
Tetraflu	Joro-1,4-benzoquinone onstituent)		(CAS No) 527-21-9	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text	of H-phrases: see section 16				
3.2.	Mixture				
lot app	licable				
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
	l measures general	: In ca	se of accident or if you feel unwell, seek	nedical advice i	mmediately (show the label
			e possible). Move the affected personnel		
First-aid	I measures after inhalation		ove person to fresh air and keep comforta ration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid	I measures after skin contact	: Wash	with plenty of soap and water. Get med	cal advice/atter	ition.
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lense present and easy to do. Continue rinsing. Get medical advice/attention.					
First-aid	I measures after ingestion		OT induce vomiting. Never give anything h out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effect	ts, both	acute and delayed		
Sympto	ms/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 medica	l attentio	n and special treatment needed		
Freat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
	extinguishing media		ol resistant foam. Carbon dioxide. Dry po	owder. Water sp	ray. Use extinguishing media
Suitable		appro	ppriate for surrounding fire.		
	Special hazards arising from the su	bstance	or mixture		
5.2.		bstance		ides. Hydrogen	
5.2. Fire haz		bstance	or mixture	ides. Hydrogen	
5.2. Fire haz	zard	bstance : Therr	or mixture	ides. Hydrogen	
5.2. Fire haz 5.3. Firefight	Advice for firefighters	bstance : Therr : In ca : Wear	or mixture nal decomposition generates: Carbon ox	n combination v	fluoride.
5.2. Fire haz 5.3. Firefight Protectio	Advice for firefighters ting instructions	bstance : Therr : In ca : Wear appa	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area.	n combination v	fluoride.
5.2. Fire haz 5.3. Firefight Protection	Advice for firefighters ting instructions on during firefighting	bstance : Therr : In ca : Wear appa sures	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area. gas tight chemically protective clothing i ratus. For further information refer to sec	n combination v	fluoride.
5.2. Fire haz 5.3. Firefight Protection SECT	Advice for firefighters ting instructions on during firefighting ION 6: Accidental release mea	bstance : Then : In ca : Wear appa sures uipment	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area. gas tight chemically protective clothing i ratus. For further information refer to sec	n combination v ion 8: "Exposur	fluoride. vith self contained breathing e controls/personal protection".
5.2. Fire haz 5.3. Firefight Protection SECTI 5.1. General	Advice for firefighters ting instructions on during firefighting ION 6: Accidental release mea Personal precautions, protective eq	bstance : Then : In ca : Wear appa sures uipment	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area. gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures	n combination v ion 8: "Exposur	fluoride. vith self contained breathing e controls/personal protection".
5.2. Fire haz 5.3. Firefight Protection SECT 6.1. General 6.1.1.	Advice for firefighters ting instructions on during firefighting ION 6: Accidental release mea Personal precautions, protective eq I measures	bstance : Therr : In ca : Wear appa sures uipment : Evac	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area. gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures	n combination v ion 8: "Exposur quate air ventila	fluoride. with self contained breathing e controls/personal protection".
5.2. Fire haz 5.3. Firefight Protection SECT 5.1. General 5.1.1. Emerge	Advice for firefighters ting instructions on during firefighting ION 6: Accidental release mea Personal precautions, protective eq I measures For non-emergency personnel	bstance : Therr : In ca : Wear appa sures uipment : Evac	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area. gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade	n combination v ion 8: "Exposur quate air ventila	fluoride. with self contained breathing e controls/personal protection".
5.2. Fire haz 5.3. Firefight Protection SECT 5.1. General 5.1.1. Emerge 5.1.2.	Advice for firefighters ting instructions on during firefighting ION 6: Accidental release mea Personal precautions, protective eq I measures For non-emergency personnel incy procedures	 bstance Therr In car Wear appa sures uipment Evac Only Do no 	or mixture nal decomposition generates: Carbon ox se of fire: Evacuate area. gas tight chemically protective clothing i ratus. For further information refer to sec and emergency procedures uate unnecessary personnel. Ensure ade	n combination v ion 8: "Exposur quate air ventila e protective equ protective equip	fluoride. vith self contained breathing e controls/personal protection". ation. Do not breathe dust. uipment may intervene.

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

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6.3. Methods and material for containment and cleaning up		nent and cleaning up
For containment		: Stop leak if safe to do so.
Methods for cleaning up		: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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	
Precau	utions 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 dust, mist, spray. Wear personal protective

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, includi	ing any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

equipment. Avoid contact with skin and eyes.

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

9.	1. Information on basic physical a	nd chemical properties
Ρ	hysical state	: Solid
С	olor	: No data available
0	dor	: No data available
0	dor threshold	: No data available
pl	4	: No data available
Μ	elting point	: 178 - 180 °C
F	reezing point	: No data available
В	oiling point	: No data available
F	ash point	: No data available
R	elative evaporation rate (butyl acetate=1)	: No data available
F	ammability (solid, gas)	: No data available
E	xplosion limits	: No data available
E	xplosive properties	: No data available
0	xidizing properties	: No data available
V	apor pressure	: No data available
R	elative density	: No data available
R	elative vapor density at 20 °C	: No data available
Μ	olecular mass	: 180.06 g/mol

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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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents. Strong reducing agents.
10.6.	Hazardous decomposition products
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of Section 5.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects
Acute to	exicity : Not classified

: 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 Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific larger organ loxicity (single exposure)	
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTI	ON 12: Ecological information		
12.1.	Toxicity		
No addit	ional information available		
12.2.	Persistence and degradability		
No addit	ional information available		
12.3.	Bioaccumulative potential		
No addit	No additional information available		
12.4.	Mobility in soil		
No addit	ional information available		
12.5.	Other adverse effects		
No addit	ional information available		

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SECTION 13: Disposal consideration	5			
13.1. Waste treatment methods				
Waste treatment methods	: Remove to an authorized incinerator equipped with	an afterburner and a flue gas scrubber.		
Vaste 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				
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 excl Substances Control Act (TSCA) inventory excep	uded from listing, on the United States Environmental I t for:	Protection Agency Toxic		
Tetrafluoro-1,4-benzoquinone	CAS No 527-21-9	100%		

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

No additional information available

EU-Regulations

No additional information available

National regulations

Tetrafluoro-1,4-benzoquinone (527-21-9)	
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:

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

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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	: 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.