

# Tetrafluorosuccinimide

Safety Data Sheet 4H48325 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/30/2019 Version: 1.0

SECTION 1: Identification 1.1. Identification Product form Substance name CAS No Product code Formula	
Product form Substance name CAS No Product code	
Substance name CAS No Product code	Ocholana
CAS No Product code	: Substance
Product code	: Tetrafluorosuccinimide
	: 377-33-3
Formula	: 4H48-3-25
	: C4HF4NO2
Synonyms	: 3,3,4,4-Tetrafluoropyrrolidine-2,5-dione
Other means of identification	: MFCD07784309
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
I.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	<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 m	
Classification (GHS-US)	
STOT SE 3 H335 - May cause respira Full text of H-phrases: see section 16	atory irritation
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
	: P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling
Precautionary statements (GHS-US)	<ul> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> </ul>

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	P362 P403 P405	7+P313 - If eye irritation persists: Get med 2+P364 - Take off contaminated clothing a 3+P233 - Store in a well-ventilated place. 5 - Store locked up - Dispose of contents/container to an ap	and wash it befor Keep container	ore reuse · tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/information</b>	n on ir	gredients		
3.1. Substance				
Substance type	: Mone	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Tetrafluorosuccinimide (Main constituent)		(CAS No) 377-33-3	<= 100	Acute Tox. 4 (Oral), H302 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				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ration. Get immediate medical advice/atte		ng. If not breathing, give artificial
First-aid measures after skin contact	: Was	h with plenty of soap and water. Get imm	ediate medical	advice/attention.
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		IOT induce vomiting. Never give anything h out with water. Get immediate medical		•
4.2. Most important symptoms and effect	s, both	acute and delayed		
Symptoms/injuries	: The	most important known symptoms and effe and/or in section 11.	ects are describ	ed in the labelling (see section
4.3. Indication of any immediate medical	attentic	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the sub	stance	or mixture		
Fire hazard	: Ther	mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area.		
Protection during firefighting	: Wea appa	r gas tight chemically protective clothing i ratus. For further information refer to sec	n combination v tion 8: "Exposu	with self contained breathing re controls/personal protection".
SECTION 6: Accidental release meas	ures			
6.1. Personal precautions, protective equ	ipment	and emergency procedures		
General measures		uate unnecessary personnel. Ensure ade	equate air ventil	ation. Do not breathe dust.

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6.1.2. For emergency respon	nders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precau	Itions
Avoid release to the environment.	. Notify authorities if product enters sewers or public waters.
6.3. Methods and material	I for containment 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 se	ctions
No additional information availabl	le
SECTION 7: Handling and	d storage
7.1. Precautions for safe h	
	landing
Descentions for onfo houselling	
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 dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Precautions for safe handling Hygiene measures	: 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
U Hygiene measures	<ul> <li>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 equipment. Avoid contact with skin and eyes.</li> <li>Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or</li> </ul>
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Hygiene measures 7.2. Conditions for safe st	<ul> <li>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 equipment. Avoid contact with skin and eyes.</li> <li>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.</li> </ul>
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Hygiene measures 7.2. Conditions for safe st Technical measures Storage conditions	<ul> <li>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 equipment. Avoid contact with skin and eyes.</li> <li>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.</li> <li>torage, including any incompatibilities <ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use.</li> </ul> </li> </ul>

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physic	al and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pН	: No data available
Melting point	: 66 - 66.5 °C
Freezing point	: No data available
Boiling point	: 176 °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

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Oxidizing properties	: No data available
Vapor pressure	: 3.5 mm Hg (@ 75 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 171.0499 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

SECT	ION 10: Stability and reactivity			
10.1.	Reactivity			
No add	litional information available			
10.2.	Chemical stability			
The pro	oduct is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No add	litional information available			
10.4.	Conditions to avoid			
Keep a	way from heat, sparks and flame.			
10.5.	Incompatible materials			
Strong	acids. Strong bases. Strong oxidizing agents. Strong 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**

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed.
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

SECTION	SECTION 12: Ecological information				
12.1.	Tevicity				
12.1.	Toxicity				
No additi	onal information available				
12.2.	Persistence and degradability				
No additi	No additional information available				
12.3.	Bioaccumulative potential				
No additional information available					
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#### 12.4. Mobility in soil

#### No additional information available

#### 12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods Waste treatment methods	: Remove to an authorized incinerator equipped with ar	afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with lice	0
Additional information	: Recycle the material as far as possible.	-
SECTION 14: Transport informat	ion	
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 informa	tion	
15.1. US Federal regulations		
All components of this product are listed, of Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmental Pr except for:	otection Agency Toxic
Tetrafluorosuccinimide	CAS No 377-33-3	100%

### 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**

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Full tex	t of H-phrases:	
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	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
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	fire hazard reactivity	<ul> <li>residual injury even though prompt medical attention was given.</li> <li>0 - Materials that will not burn.</li> <li>1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.</li> </ul>
	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

#### 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.