

Safety Data Sheet 465434Q according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/09/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
	: 4'-Nitro-2,2,2-trifluoroacetophenone
CAS No	: 58808-61-0
Product code	: 4654-3-4Q
Formula	: C8H4F3NO3
Synonyms	: 2.2.2-Trifluoro-1-(4-nitrophenyl)ethanone
, ,	: MFCD13173414
	ance 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 da	ata 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.com	1
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 mix	xture
Classification (GHS-US)	
Acute Tox. 4 (Oral)H302 - Harmful if swaAcute Tox. 4 (Dermal)H312 - Harmful in corAcute Tox. 4 (Inhalation)H312 - Harmful i inhaSkin Irrit. 2H315 - Causes skin irEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause res	ntact with skin aled rritation us eye irritation
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	<ul> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
	<ul> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <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> </ul>
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	<ul> <li>P330 - Rinse mouth</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	3)			
Not applicable				
SECTION 3: Composition/informa	tion on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product identifier	%	Classification (GHS-US)	
4'-Nitro-2,2,2-trifluoroacetophenone (Main constituent)	(CAS No) 58808-61-0	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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		- II I		
First-aid measures general	: In case of accident or if you feel unw where possible). Move the affected p			
First-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get immediate medical a	comfortable for breat		
First-aid measures after skin contact	: Wash with plenty of soap and water.	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion	: Do NOT induce vomiting. Never give mouth out with water. Get immediate			
4.2. Most important symptoms and e				
Symptoms/injuries	: The most important known symptom 2.2) and/or in section 11.	s and effects are desc	ribed in the labelling (see section	
4.3. Indication of any immediate med	lical attention and special treatment need	ed		
Treat symptomatically.				
SECTION 5: Firefighting measure	S			
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxid appropriate for surrounding fire.	de. Dry powder. Water	r spray. Use extinguishing media	
5.2. Special hazards arising from the	substance or mixture			
Fire hazard	: Thermal decomposition generates: C	arbon oxides. Hydrog	en fluoride. Nitrogen oxides.	
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area.			
Protection during firefighting	: Wear gas tight chemically protective apparatus. For further information rel			
SECTION 6: Accidental release m				
6.1. Personal precautions, protective	equipment and emergency procedures			
General measures	: Evacuate unnecessary personnel. Er	nsure adequate air ver	ntilation. Do not breathe dust.	
6.1.1. For non-emergency personnel				
Emergency procedures	: Only qualified personnel equipped w	ith suitable protective	equipment may intervene.	
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6.1.2. For emergency resp	ponders
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 prec	autions
Avoid release to the environme	ent. Notify authorities if product enters sewers or public waters.
6.3. Methods and mater	ial 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	sections
No additional information availa	able
SECTION 7: Handling a	ind storage
7.1. Precautions for safe	e 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 dust, mist, spray. 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.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Ctone	Others in data and well-sensible to descent

Storage area	: Store in dry, cool, well-ventilated area.
etorage area	

### SECTION 8: Exposure controls/personal protection

#### **Control parameters** 8.1.

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 physical an	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 42 - 47 °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

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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	: 219.1175 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

SECTIO	N 10: Stability and reactivity
10.1.	Reactivity
No additio	nal information available
10.2.	Chemical stability
The produ	ict is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additio	nal information available
10.4.	Conditions to avoid
Keep awa	y from heat, sparks and flame.
10.5.	Incompatible materials
Strong oxi	idizing agents.
10.6.	Hazardous decomposition products
Under nor	mal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

should not be produced. Hazardous decomposition products in fire, see Section 5.

### **SECTION 11: Toxicological information**

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

4'-Nitro-2,2,2-trifluoroacetophenone (58808-61-0)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h
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

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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 add	itional information available

SECTION 13: Disposal consideration	ons
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.

#### **Department of Transportation (DOT)**

**SECTION 14: Transport information** 

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:

	4'-Nitro-2,2,2-trifluoroacetophenone	CAS No 58808-61-0	100%
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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 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

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given.

#### SECTION 16: Other information

Full text of	H-phrases:
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Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
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
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA fire hazard : 1 - Must be preheated before ignition can occur. 0 : 0 - Normally stable, even under fire exposure conditions, NFPA reactivity 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 : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) 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.