

4'-Fluorophenylacetone Safety Data Sheet 2617316 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/02/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4'-Fluorophenylacetone		
CAS No	: 459-03-0		
Product code	: 2617-3-16		
Formula	: C9H9FO		
Synonyms	: 1-(4-Fluorophenyl)propan-2	one; 1-(4-Fluorophenyl)-2-oxopropane	
Other means of identification	: MFCD0000362		
1.2. Relevant identified uses of the s	ubstance or mixture and uses ad	rised against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substances Scientific research and deve	lopment	
1.3. Details of the supplier of the safe	ety data sheet		
SynQuest Laboratories, Inc.			
P.O. Box 309	-		
Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097	a		
info@synquestlabs.com - www.synquestlabs	.com		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	y - Account 10069)	
<i>.</i> .		,	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Flam. Liq. 4 H227 - Combustible liquid			
Skin Irrit. 2 H315 - Causes skin irritation			
Eye Irrit. 2A H319 - Causes serious eye ir			
STOT SE 3 H335 - May cause respiratory	/ irritation		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
Tiazaru pictograms (GH3-03)			
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	\mathbf{V}		
	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H227 - Combustible liquid		
	H315 - Causes skin irritatior H319 - Causes serious eye		
	H335 - May cause respirato		
Precautionary statements (GHS-US)		/sparks/open flames/hot surfaces. No smoking	
	P261 - Avoid breathing fum		
	P264 - Wash skin thoroughl	vafter handling	
	P271 - Use only outdoors of		
		es/protective clothing/eye protection/face protectior h with plenty of soap and water	1
		nove person to fresh air and keep comfortable for b	reathing
	P305+P351+P338 - If in eye	s: Rinse cautiously with water for several minutes.	
	lenses, if present and easy		
		FER or doctor/physician if you feel unwell ee supplemental first aid instructions on this label)	
		occurs: Get medical advice/attention	
	P337+P313 - If eye irritatior	persists: Get medical advice/attention	
	P362+P364 - Take off conta	minated clothing and wash it before reuse	
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	P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to exting P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant		tightly closed	
	F301	- Dispose of contents/container to an ap	proved waste di	isposal plant
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	5)			
Not applicable				
SECTION 3: Composition/informa	tion on in	gredients		
3.1. Substance				
Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
4'-Fluorophenylacetone (Main constituent)		(CAS No) 459-03-0	<= 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16		1		· ·
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures	5			
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 comfort ration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact	: Wash	: Wash with plenty of soap and water. Get medical advice/attention.		
First-aid measures after eye contact	prese	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.		
First-aid 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 e	ffects, 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 med Treat symptomatically.	lical attentio	n and special treatment needed		
SECTION 5: Firefighting measure	S			
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard		nal decomposition generates: Carbon o>	kides. Hydrogen	fluoride.
Explosion hazard	: Risk	of explosion if heated under confinement iners. May form flammable/explosive va	t. Use water spra	
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remo	tely due to the ris	sk of explosion.
Protection during firefighting	: Wear	gas tight chemically protective clothing ratus. For further information refer to sec	in combination w	vith self contained breathing
SECTION 6: Accidental release m				
6.1. Personal precautions, protective				
General measures		uate unnecessary personnel. Ensure ade r or spray.	equate air ventila	ation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitab	le protective equ	uipment may intervene.
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refer to se	empt to take action without suitable protective equipment. For further information ection 8: "Exposure controls/personal protection".	
	r heavier than air. May accumulate in confined spaces, particularly at or below ground sider the risk of potentially explosive atmospheres. Eliminate every possible source of	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorities if product e	enters sewers or public waters.	
6.3. Methods and material for containment and clean	ing up	
For containment : Stop leak	if safe to do so. Dike for recovery or absorb with appropriate material.	
explosion	arge spills with pump or vacuum and finish with dry chemical absorbent. Use proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel appropriate container for disposal. Ventilate area.	
Other information : For dispos	sal 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		
Additional hazards when processed : Handle en	npty containers with care because residual vapors are flammable.	
ventilation protective (including	ndle until all safety precautions have been read and understood. Ensure good of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal equipment. Avoid contact with skin and eyes. Keep away from ignition sources static discharges). Proper grounding procedures to avoid static electricity should be Use only non-sparking tools.	
	accordance with good industrial hygiene and safety procedures. Do not eat, drink or en using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incom	patibilities	
Technical measures : Comply w	ith applicable regulations.	
Storage conditions : Keep cont	Keep container closed when not in use. Keep away from ignition sources.	
Incompatible materials : Refer to S	ection 10 on Incompatible Materials.	
Storage area : Store in d	ry, cool, well-ventilated area.	

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SECT	SECTION 8: Exposure controls/personal protection				
8.1.	Control parameters				
No addi	tional 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 an	d chemical properties
9.1. Information on basic	physical and chemical properties
Physical state	: Liquid
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

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Boiling point : 106 - 107 °C (@ 18 mm Hg)			
Flash point	: 91 °C		
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		
Specific gravity / density	: 1.139 g/ml (@ 20 °C)		
Molecular mass	: 152.17 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			
Refractive index	: 1.4958 (@ 20 °C)		
SECTION 10: Stability and reactivity	v		
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

Keep away from heat, sparks and flame.

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	3	
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	

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

SECTION 13: Disposal consideration	
13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	 NA1993 Combustible liquid, n.o.s. 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 III - Minor Danger 203 241 D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea	
No additional information available	

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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'-Fluorophenylacetone CAS No 459-03-0 100%		
	CAS No 459-03-0	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

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:

Full lext	or n-prirases.	
Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A
	Flam. Liq. 4	Flammable liquids Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H227	Combustible liquid
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
 NFPA health hazard NFPA fire hazard NFPA fire hazard 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 		residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 0 - Normally stable, even under fire exposure conditions,
HMIS III	Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includ solids and semi solids having a flash point above 200 F. (Class IIIB)		 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)
		: 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.