

# **4-Fluoro-4'-methoxybenzophenone** Safety Data Sheet 26173Y1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/12/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Fluoro-4'-methoxybenzophenone
CAS No	: 345-89-1
Product code	: 2617-3-Y1
Formula	: C14H11FO2
Synonyms	: (4-Fluorophenyl)(4-methoxyphenyl)methanone; 4-(4-Fluorobenzoyl)anisole
Other means of identification	: MFCD00055469
1.2. Relevant identified uses of the	e substance 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 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 1.4. Emergency telephone number	<u>bs.com</u>
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Eye Irrit. 2A H319 - Causes serious eye	e irritation
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	e irritation
Eye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirateFull text of H-phrases: see section 162.2.Label elements	e irritation
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2.2 Other hererde				
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information c	n ingradiants			
3.1. Substance	in ingredients			
	Mono-constituent			
	: Mono-constituent			
Name           4-Fluoro-4'-methoxybenzophenone	Product identifi (CAS No) 345-89-1	er	<b>%</b> <= 100	Classification (GHS-US) Skin Irrit. 2, H315
(Main constituent)	(CAS NO) 343-69-1		<= 100	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				
	In case of accident or if where possible). Move t			immediately (show the label contaminated area.
First-aid measures after inhalation :	Remove person to fresh respiration. Get medical		able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact :	Wash with plenty of soa	p and water. Get medi	ical advice/atten	ntion.
First-aid measures after eye contact :				
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.			unconscious person. Rinse	
4.2. Most important symptoms and effects,	both acute and delaye	d		
Symptoms/injuries :	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
4.3. Indication of any immediate medical at	ention and special trea	atment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media :	Alcohol resistant foam. appropriate for surround		owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the substance or mixture				
Fire hazard :	Thermal decomposition	generates: Carbon ox	ides. Hydrogen	fluoride.
5.3. Advice for firefighters				
Firefighting instructions : In case of fire: Evacuate area.				
Protection during firefighting : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".				
SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equip				
General measures :	Evacuate unnecessary	personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.				
6.1.2.       For emergency responders         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 precautions				

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

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6.3. Methods and material for contain	Methods and material 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 available			
SECTION 7: Handling and storage			
7.1. Precautions for safe 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	g 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.

#### 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	and chemical properties	
Physical state	: Solid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: 90 - 92 °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	: 230.23 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 add	itional information available	
10.2.	Chemical stability	
The pro	oduct is stable at normal handling and sto	prage conditions.
10.3.	Possibility of hazardous reactions	
No add	itional information available	
10.4.	Conditions to avoid	
Keep a	way from heat, sparks and flame.	
10.5.	Incompatible materials	
Strong	oxidizing agents.	
10.6.	Hazardous decomposition products	3
	normal conditions of storage and use, haz e Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECT	ION 11: Toxicological informat	ion
11.1.	Information on toxicological effects	
Acute to	oxicity	: Not classified
Skin co	rrosion/irritation	: Causes skin irritation.

: Causes serious eye irritation.
: Not classified
: Not classified
: Not classified
: Not classified : May cause respiratory irritation.
: Not classified

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

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Aspiration hazard

: Not classified

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SECTION 42. Diseased service	otiono	
SECTION 13: Disposal consider	ations	
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.	
<b>SECTION 14: Transport informa</b>	tion	
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		
<b>SECTION 15: Regulatory inform</b>	ation	
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-Fluoro-4'-methoxybenzophenone	CAS No 345-89-1	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:

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	: 1 - Must be preheated before ignition can occur.
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	: 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.