

4-(Trifluoromethyl)benzophenone Safety Data Sheet 2817334 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-(Trifluoromethyl)benzophenone
CAS No	: 728-86-9
Product code	2817-3-34
Formula	: C14H9F3O
Other means of identification	: MFCD0000400
	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 d	lata 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 mi	ixture
Classification (CHS US)	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritati	00
STOT SE 3 H335 - May cause respiratory irrit	
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)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant

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cording to Federal Register / Vol. 77, No. 58 / Monday	, March 26,				
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
Not applicable					
SECTION 3: Composition/informatio	on on in	gredients			
3.1. Substance	••				
Substance type	: Mono	o-constituent			
Name		Product identifier	%		Classification (GHS-US)
4-(Trifluoromethyl)benzophenone (Main constituent)		(CAS No) 728-86-9	<=	: 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16					
S.2. Mixture					
lot applicable					
ECTION 4: First aid measures					
.1. Description of first aid measures					
irst-aid measures general		se of accident or if you feel unwe			
irst-aid measures after inhalation	: Remo	e possible). Move the affected po ove person to fresh air and keep ration. Get medical advice/attent	comfortable	-	
First-aid measures after skin contact	•	n with plenty of soap and water.		advice/atten	tion.
ïrst-aid measures after eye contact	: Imme	ediately flush eyes thoroughly wit	th water for a	at least 15 m	inutes. Remove contact lenses,
irst-aid measures after ingestion	: Do N	OT induce vomiting. Never give	anything by r	mouth to an	
	mout	h out with water. Get medical ad	lvice/attentior	n.	
.2. Most important symptoms and effe			lvice/attentior	n.	
4.2. Most important symptoms and effect Symptoms/injuries	cts, both : The r				ed in the labelling (see section
Symptoms/injuries	cts, both : The r 2.2) a	acute and delayed nost important known symptoms and/or in section 11.	s and effects a		ed in the labelling (see section
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Symptoms/injuries	cts, both : The r 2.2) a	acute and delayed nost important known symptoms and/or in section 11.	s and effects a		ed in the labelling (see section
Symptoms/injuries .3. Indication of any immediate medica Treat symptomatically. SECTION 5: Firefighting measures	cts, both : The r 2.2) a	acute and delayed nost important known symptoms and/or in section 11.	s and effects a		ed in the labelling (see section
Symptoms/injuries	cts, both : The r 2.2) a al attentio : Alcoh	acute and delayed nost important known symptoms and/or in section 11. on and special treatment neede nol resistant foam. Carbon dioxid	s and effects a	are describe	
Symptoms/injuries .3. Indication of any immediate medical reat symptomatically. SECTION 5: Firefighting measures .1. Extinguishing media	cts, both : The r 2.2) a al attentio : Alcoh	acute and delayed nost important known symptoms and/or in section 11.	s and effects a	are describe	
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Symptoms/injuries	cts, both : The r 2.2) a al attentio : Alcoh appro-	acute and delayed most important known symptoms and/or in section 11. In and special treatment neede nol resistant foam. Carbon dioxid opriate for surrounding fire.	s and effects a ed de. Dry powde	are describe er. Water sp	ray. Use extinguishing media
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Symptoms/injuries	cts, both : The r 2.2) a al attentio : Alcor appro- ibstance : Therr : In cas : Weat	acute and delayed most important known symptoms and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxid opriate for surrounding fire. or mixture mal decomposition generates: C	and effects and ef	are describe er. Water sp s. Hydrogen f	ray. Use extinguishing media fluoride.
Symptoms/injuries	cts, both : The r 2.2) a al attentio : Alcor appro- ibstance : Therr : In cas : Wear appa	acute and delayed most important known symptoms and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxid opriate for surrounding fire. or mixture mal decomposition generates: C se of fire: Evacuate area. r gas tight chemically protective of	and effects and ef	are describe er. Water sp s. Hydrogen f	ray. Use extinguishing media fluoride.
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Symptoms/injuries .3. Indication of any immediate medical reat symptomatically. SECTION 5: Firefighting measures .1. Extinguishing media .1. Extinguishing media .2. Special hazards arising from the surifier hazard .3. Advice for firefighters irefighting instructions Protection during firefighting SECTION 6: Accidental release meaa .1. Personal precautions, protective equations	cts, both : The r 2.2) a al attentio : Alcor appro- bstance : Therr : In cas : Wear appa SURES quipment	acute and delayed most important known symptoms and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxid opriate for surrounding fire. or mixture mal decomposition generates: C se of fire: Evacuate area. r gas tight chemically protective of ratus. For further information refer	arbon oxides	are describe er. Water sp s. Hydrogen f ombination w 8: "Exposure	ray. Use extinguishing media fluoride. ith self contained breathing e controls/personal protection".
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Symptoms/injuries	cts, both : The r 2.2) a al attentio : Alcor appro- ibstance : Therr : In cas : Wear appa SURES puipment : Evac : Only : Do no	acute and delayed most important known symptoms and/or in section 11. In and special treatment needed nol resistant foam. Carbon dioxid opriate for surrounding fire. or mixture mal decomposition generates: C se of fire: Evacuate area. r gas tight chemically protective of ratus. For further information refe and emergency procedures uate unnecessary personnel. En qualified personnel equipped wit ot attempt to take action without	and effects a ed le. Dry powde arbon oxides clothing in co er to section a nsure adequa th suitable prote	are describe er. Water sp s. Hydrogen f ombination w 8: "Exposure ate air ventila rotective equip	ray. Use extinguishing media fluoride. ith self contained breathing e controls/personal protection". ition. Do not breathe dust. ipment may intervene.
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Methods for cleaning up Other information		 Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. For disposal of solid materials or residues refer to section 13 : "Disposal considerations". 		
No add	litional information available			
SECT	TION 7: Handling and storage			
7.1.	Precautions for safe handling			
Precau	itions 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.		
Hygien	e 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, inclu	ding any incompatibilities		
Techni	cal measures	: Comply with applicable regulations.		
Storage	e conditions	: Keep container closed when not in use.		

: 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**

Incompatible materials

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 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	: 116 - 118 °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	: 250.22 g/mol
Solubility	: No data available
Log Pow	: No data available

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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	
SECTION 10: Stability and re	eactivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handli	ing and storage conditions.
10.3. Possibility of hazardous r	reactions
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flar	me.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition	n products
Under normal conditions of storage an fire, see Section 5.	nd use, hazardous decomposition products should not be produced. Hazardous decomposition products in case c
SECTION 11: Toxicological i	information
11.1. Information on toxicologie	cal effects
Acute toxicity	: Not classified

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

SECT	ON 12: Ecological information
12.1.	Toxicity
No addi	tional 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

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SECTION 13: Disposal considerations		
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.	

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 excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

4-(Trifluoromethyl)benzophenone	CAS No 728-86-9	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

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.