

2',4'-Difluoropropiophenone Safety Data Sheet 2617330 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	: 2',4'-Difluoropropiophenone		
CAS No	: 85068-30-0		
Product code	: 2617-3-30		
Formula	: C9H8F2O		
Synonyms	: 1-(2,4-Difluorophenyl)propan	1-one	
Other means of identification	: MFCD00015507		
		and project	
1.2. Relevant identified uses of the Use of the substance/mixture	substance or mixture and uses adv : Laboratory chemicals Manufacture of substances Scientific research and devel		
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			
Emergency number	: (844) 523-4086 (3E Compan	/ - Account 10069)	
SECTION 2: Hazard(s) identification	tion		
2.1. Classification of the substance	e or mixture		
Classification (GHS-US)			
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato 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)	: H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye i H335 - May cause respirator		
Precautionary statements (GHS-US)	P261 - Avoid breathing fume P264 - Wash skin thoroughly P271 - Use only outdoors or P280 - Wear protective glove P302+P352 - If on skin: Was P304+P340 - If inhaled: Rem P305+P351+P338 - If in eye lenses, if present and easy to P312 - Call a POISON CENT P321 - Specific treatment (se P332+P313 - If skin irritation P337+P313 - If syn irritation	after handling n a well-ventilated area s/protective clothing/eye protection/face protection with plenty of soap and water ove person to fresh air and keep comfortable for : Rinse cautiously with water for several minutes	r breathing s. Remove contact
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	P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish 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		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	S)		
Not applicable			
SECTION 3: Composition/information	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2',4'-Difluoropropiophenone (Main constituent)	(CAS No) 85068-30-0	<= 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		I	
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measure			
First-aid measures general	where possible). Move the affect	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and w		
First-aid measures after eye contact			15 minutes. Remove contact lenses, if vice/attention.
First-aid measures after ingestion	 present and easy to do. Continue rinsing. Get medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 		
4.2. Most important symptoms and	effects, both acute and delayed		
Symptoms/injuries	: The most important known sym 2.2) and/or in section 11.	ptoms and effects are des	cribed in the labelling (see section
4.3. Indication of any immediate me	dical attention and special treatment	needed	
Treat symptomatically.			
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon appropriate for surrounding fire.	dioxide. Dry powder. Wate	er spray. Use extinguishing media
5.2. Special hazards arising from the	e substance or mixture		
Fire hazard	: Thermal decomposition generat	es: Carbon oxides. Hydro	gen fluoride.
Explosion hazard	: Risk of explosion if heated under containers. May form flammable		spray or fog for cooling exposed ire.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area. F	а ,	•
Protection during firefighting	: Wear gas tight chemically prote apparatus. For further information		on with self contained breathing osure controls/personal protection".
SECTION 6: Accidental release n	neasures		
6.1. Personal precautions, protectiv	e equipment and emergency procedu	res	
General measures	: Evacuate unnecessary personn vapor or spray.	el. Ensure adequate air ve	entilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipp	ed with suitable protective	equipment may intervene.
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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".		
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.		
6.2. Environmental precautions			
Avoid release to the environment. Notify auth	norities if product enters sewers or public waters.		
5.3. Methods and material for containment and cleaning up			
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
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			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
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 fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
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, incl	uding any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.		
ncompatible 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 additio	onal 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 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	: 51 - 52 °C (@ 1.5 mm Hg)	
Flash point	: 76 °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	: 1.19 g/ml (@ 20 °C)	
Molecular mass	: 170.16 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	: 1.49 (@ 20 °C)	
SECTION 10: Stability and reactivity	ty .	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and s	storage conditions.	
10.3. Possibility of hazardous reactions	ŝ	
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	i de la constante de la constan		
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 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

SECTION 13: Disposal consideration	IS
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 Additional information	: 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	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: 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, 31HD2, 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.
TRO	
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:

2',4'-Difluoropropiophenone CAS No 85068-30-0 1009	6

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 text of H-phras	5.	
Eye Irrit. 2	1	Serious eye damage/eye irritation Category 2A
Flam. Liq.		Flammable liquids Category 4
Skin Irrit. 2		Skin corrosion/irritation Category 2
STOT SE		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 hazar NFPA fire hazard NFPA reactivity	residual injury even thoug given. : 1 - Must be preheated bef	h prompt medical attention was fore ignition can occur. under fire exposure conditions,
HMIS III Rating		
Health	: 2 Moderate Hazard - Ter	nporary or minor injury may occur
Flammability	nability : 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		
SDS US (GHS HazCo	n 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 offend 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.