

2,3-Difluoroiodobenzene Safety Data Sheet 1600K09 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/09/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2,3-Difluoroiodobenzene		
CAS No	: 64248-57-3		
Product code	: 1600-K-09		
Formula	: C6H3F2I		
Other means of identification	: MFCD08458090		
1.2. Relevant identified uses of the s	substance or mixture and uses adv	ised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve	Ŭ	
1.3. Details of the supplier of the saf	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			
info@synquestlabs.com - www.synquestlabs	<u>s.com</u>		
1.4. Emergency telephone number	· (944) 522 4096 (2E Compos	Account 10060)	
Emergency number	: (844) 523-4086 (3E Compar	y - Account Tooby)	
SECTION 2: Hazard(s) identificati	on		
2.1. Classification of the substance			
Classification (GHS-US)			
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	y irritation		
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)	 P210 - Keep away from heat 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: Ren P305+P351+P338 - If in eye lenses, if present and easy t P312 - Call a POISON CEN P321 - Specific treatment (se P332+P313 - If skin irritation P337+P313 - If see irritation P362+P364 - Take off conta 	'/sparks/open flames/hot surfaces. No smokir s, mist, spray, vapors / after handling in a well-ventilated area es/protective clothing/eye protection/face prot h with plenty of soap and water hove person to fresh air and keep comfortable s: Rinse cautiously with water for several min	tection e for breathing nutes. Remove contac abel)
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- 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 US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,3-Difluoroiodobenzene (Main constituent)		(CAS No) 64248-57-3	<= 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				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personne		
First-aid measures after inhalation		ove person to fresh air and keep comfor ration. Get medical advice/attention.	table for breat	hing. If not breathing, give artificial
First-aid measures after skin contact	: Wash	n with plenty of soap and water. Get me	dical advice/at	tention.
First-aid measures after eye contact		ediately flush eyes thoroughly with wate ent and easy to do. Continue rinsing. Ge		
First-aid measures after ingestion		OT induce vomiting. Never give anythin h out with water. Get medical advice/att		an unconscious person. Rinse
4.2. Most important symptoms and eff	fects, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and ef and/or in section 11.	fects are desc	ribed in the labelling (see section
4.3. Indication of any immediate medi	cal attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: Therr	nal decomposition generates: Carbon c	xides. Hydrog	en fluoride. Hydrogen iodide.
Explosion hazard		of explosion if heated under confinemer iners. May form flammable/explosive va		
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remo	otely due to the	e risk of explosion.
Protection during firefighting		gas tight chemically protective clothing ratus. For further information refer to se		
SECTION 6: Accidental release me				
6.1. Personal precautions, protective				
General measures		uate unnecessary personnel. Ensure ac r or spray.	dequate air ver	ntilation. Do not breathe gas, fumes,
6.1.1 For non-omorgonov porsonnol				

6.1.1. For non-emergency personnel

Emergency procedures

: Only qualified personnel equipped 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 author	ities if product enters sewers or public waters.	
6.3. Methods and material for containm	ent 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, includ	ing any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.	
Incompatible materials : Refer to Section 10 on Incompatible Materials.		
•	Storage temperature : 2 - 8 °C Use explosion proof refrigerator	
	. 2 - 8 C Use explosion proor reingerator	

Control parameters 8.1.

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 physica	I and chemical properties	
Physica	al state	: Liquid	
Color		: No data available	
Odor		: No data available	
Odor th	nreshold	: No data available	
pН		: No data available	
Melting	point	: No data available	

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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	: 239.99 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

SECTION 10: Stability and reactivity
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 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

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

SECTION 13: Disposal consideration	S
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	
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, 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:

2,3-Difluoroiodobenzene CAS No 64248-57-3 100%		
	CAS No 64248-57-3	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 of n-philases.		
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	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature 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	 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA) 	
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.