

Safety Data Sheet 1100J20 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/07/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Diiododifluoromethane
CAS No	: 1184-76-5
Product code	: 1100-J-20
Formula	: CF2I2
Synonyms	: Difluorodiiodomethane
Other means of identification	: MFCD00798131
I.2. Relevant identified uses of the s	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 saf	fety 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 - <u>www.synquestlabs</u>	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator	irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	irritation
Eye Irrit. 2A H319 - Causes serious eye i	irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation ry irritation
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Eye Irrit. 2A       H319 - Causes serious eye i         STOT SE 3       H335 - May cause respirator         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation ry irritation
Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	<ul> <li>irritation</li> <li>ry irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: irritation</li> <li>: Warning</li> <li>: H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> </ul>

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)	1			
Not applicable				
SECTION 3: Composition/informat	ion on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Diiododifluoromethane (Main constituent)		(CAS No) 1184-76-5	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16				
B.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
irst-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
irst-aid measures after inhalation	: Rem	ove person to fresh air and keep comfortation. Get medical advice/attention.	5	
irst-aid measures after skin contact	•	h with plenty of soap and water. Get med	ical advice/atten	tion.
irst-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
irst-aid measures after ingestion		IOT induce vomiting. Never give anything th out with water. Get medical advice/atte		unconscious person. Rinse
.2. Most important symptoms and ef	fects, both	acute and delayed		
Symptoms/injuries		most 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 medi	,			
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: Ther	mal decomposition generates: Carbon ox	dides. Hydrogen	fluoride. Hydrogen iodide.
xplosion hazard		of explosion if heated under confinement ainers.	. Use water spra	ay or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions		se of fire: Evacuate area. Fight fire remo	2	•
Protection during firefighting		r gas tight chemically protective clothing i aratus. For further information refer to sec		
SECTION 6: Accidental release me	asures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
General measures		cuate 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	upment may intervene.
5.1.2. For emergency responders				
Protective equipment		ot attempt to take action without suitable		ment. For further information
Emergency procedures		to section 8: "Exposure controls/persona vapor heavier than air. May accumulate i	•	es, particularly at or below ground
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6.2. Environmental precautions			
Avoid release to the environment. Notify author	rities if product enters sewers or public waters.		
6.3. Methods and material for containn	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			
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.		
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, include	Jing any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator		
Storage area	: Store in dry, well-ventilated area. Light sensitive.		

### **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	<ul> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> </ul>
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	l chemical properties		
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: -72 °C		
Freezing point	: No data available		
Boiling point	: 101 °C		
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		
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Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 2.9 g/ml (@ 20 °C)
Molecular mass	: 303.82 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	acids. 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	
SECTION 12: Ecological information	1	
12.1. Toxicity		
No additional information available		

### 12.2. Persistence and degradability

No additional information available

### **Bioaccumulative potential** 12.3.

No additional information available

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Mobility in soil 12.4.

### No additional information available

### 12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods		
Waste treatment methods Waste disposal recommendations Additional information	<ul> <li>Remove to an authorized incinerator equipped with an</li> <li>Dispose of contents/container in accordance with licens</li> <li>Recycle the material as far as possible.</li> </ul>	-
SECTION 14: Transport informa	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		
SECTION 15: Regulatory inform	ation	
15.1. US Federal regulations		
All components of this product are listed, Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmental Pro v except for:	tection Agency Toxic
Diiododifluoromethane	CAS No 1184-76-5	100%
	a toxic chemical or chemicals in excess of the applicable de mininequirements of section 313 of Title III of the Superfund Amendme	
15.2. International regulations		
CANADA		
No additional information available EU-Regulations		
No additional information available <b>EU-Regulations</b> No additional information available National regulations		
No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> No additional information available		
No additional information available <b>EU-Regulations</b> No additional information available <b>National regulations</b> No additional information available <b>15.3. US State regulations</b>	does not contain any substances known to the state of California	a to cause cancer
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 and/or reproductive harm	does not contain any substances known to the state of California	a to cause cancer
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 and/or reproductive harm SECTION 16: Other information	does not contain any substances known to the state of California	a to cause cancer
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 and/or reproductive harm SECTION 16: Other information Full text of H-phrases:		
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 and/or reproductive harm SECTION 16: Other information Full text of H-phrases: Eye Irrit. 2A	Serious eye damage/eye irri	tation Category 2A
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 and/or reproductive harm SECTION 16: Other information Full text of H-phrases:	Serious eye damage/eye irri Skin corrosion/irritation Cate	tation Category 2A

H315

H319 H335

Causes skin irritation Causes serious eye irritation

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	: 0 - Materials that will not burn.
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	: 0 Minimal Hazard - Materials that will not burn
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.