

**3,5-Difluoro-1-iodobenzene** Safety Data Sheet 1600K35 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/08/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 3,5-Difluoro-1-iodobenzene		
CAS No	: 2265-91-0		
Product code	: 1600-K-35		
Formula	: C6H3F2I		
Other means of identification	: MFCD03094155		
I.2. Relevant identified uses of the s	ubstance or mixture and uses advised a	gainst	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and developmen	t	
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 <u>nfo@synquestlabs.com</u> - <u>www.synquestlabs</u>			
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - Acc	ount 10069)	
SECTION 2: Hazard(s) identificati	on		
2.1. Classification of the substance of			
Classification (GHS-US)			
Eye Irrit. 2A H319 - Causes serious eye in 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)	: GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	<ul> <li>H227 - Combustible liquid</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>		
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing fumes, mist,</li> <li>P264 - Wash skin thoroughly after h</li> <li>P271 - Use only outdoors or in a we</li> <li>P280 - Wear protective gloves/prote</li> <li>P302+P352 - If on skin: Wash with j</li> <li>P304+P340 - If inhaled: Remove pe</li> <li>P305+P351+P338 - If in eyes: Rinst</li> <li>lenses, if present and easy to do. C</li> <li>P312 - Call a POISON CENTER or</li> <li>P321 - Specific treatment (see supp</li> <li>P332+P313 - If skin irritation occurs</li> <li>P337+P313 - If eye irritation persist</li> <li>P362+P364 - Take off contaminated</li> </ul>	andling II-ventilated area ective clothing/eye protection/face protect olenty of soap and water rrson to fresh air and keep comfortable for e cautiously with water for several minute ontinue rinsing doctor/physician if you feel unwell elemental first aid instructions on this labe : Get medical advice/attention s: Get medical advice/attention	or breathing es. Remove contact el)
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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	· Mor	o-constituent		
Name	. 100	Product identifier	%	Classification (CHC UC)
3,5-Difluoro-1-iodobenzene (Main constituent)		(CAS No) 2265-91-0	<= 100	Classification (GHS-US) 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	<b>i</b>			
First-aid measures general		ase of accident or if you feel unwell, seek re possible). Move the affected personnel		
First-aid measures after inhalation		nove person to fresh air and keep comfort iration. Get medical advice/attention.	able for breathi	ing. If not breathing, give artificial
First-aid measures after skin contact		sh with plenty of soap and water. Get med		
First-aid measures after eye contact		ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		NOT induce vomiting. Never give anything the out with water. Get medical advice/atte		n unconscious person. Rinse
4.2. Most important symptoms and e	ffects, both	acute and delayed		
Symptoms/injuries		most important known symptoms and effe and/or in section 11.	ects are descrit	bed in the labelling (see section
4.3. Indication of any immediate med	ical attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measure	S			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry p ropriate for surrounding fire.	owder. Water s	spray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard	: The	rmal decomposition generates: Carbon ox	des. Hydroger	n fluoride. Hydrogen iodide.
Explosion hazard		of explosion if heated under confinement ainers. May form flammable/explosive va		
5.3. Advice for firefighters				
Firefighting instructions	: In c	ase of fire: Evacuate area. Fight fire remo	tely due to the	risk of explosion.
Protection during firefighting		ar gas tight chemically protective clothing i aratus. For further information refer to sec		
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective				
General measures		cuate unnecessary personnel. Ensure ade or or spray.	equate air venti	ilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
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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	prities if product enters sewers or public waters.
6.3. Methods and material for contain	ment 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	
<b>SECTION 7: Handling and storage</b>	
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, inclu	ding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
	: Refer to Section 10 on Incompatible Materials.
Incompatible materials	
Incompatible materials Storage temperature	: 2 - 8 °C Use explosion proof refrigerator

### 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.
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SECTION 9: Physical and chem	ical properties

Information on basic	physical and chemical properties
state	: Liquid
	: No data available
	: No data available
reshold	: No data available
	: No data available
point	: No data available
e	state

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Freezing point	: No data available
Boiling point	: 58 - 60 °C (@ 17 mm Hg)
Flash point	: 82 °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	: 2 (@ 20 °C)
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	
Refractive index	: 1.554 (@ 20 °C)
SECTION 10: Stability and reactivit	y
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.

### **Incompatible materials** 10.5.

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 informat	ion		
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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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	
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	: 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
DOT Special Provisions (49 CFR 172.102)	requiring a technical name : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
DOT Special Flovisions (49 CFR 172.102)	(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 178.275(d)(2)
	T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3)
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a$ (tr - tf) Where: tr is the maximum mean bulk temperature
	during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail	: 60 L
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49	· 220 I
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
Other information	passenger vessel. : 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:

3,5-Difluoro-1-iodobenzene CAS No 2265-91-0 100%		
	CAS No 2265-91-0	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 m-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	<ul> <li>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 &amp; IIIA)</li> </ul>	
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.