

**3-Fluorodiphenylamine** Safety Data Sheet 3631303 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 01/31/2020

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 3-Fluorodiphenylamine	
CAS No	: 500-41-4	
Product code	: 3631-3-03	
Formula	: C12H10FN	
Other means of identification	: MFCD03094201	
1.2. Relevant identified uses of the sub	stance 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	v data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America		
T (386) 462-0788 - F (386) 462-7097 info@synguestlabs.com - www.synguestlabs.cc	m	
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 r		
Classification (GHS-US)		
Acute Tox. 3 (Oral) H301 - Toxic if swa		
Aquatic Acute 1 H400 - Very toxic to	n irritation rious eye irritation respiratory irritation damage to organs through prolonged or repeated exposure	
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	CHS06 GHS07 GHS08 GHS09	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	<ul> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> </ul>	
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> </ul>	
	P301+P310 - If swallowed: Immediately call a poison center/doctor/ P302+P352 - If on skin: Wash with plenty of soap and water	

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	P309 lens P311 P312 P320 P330 P330 P330 P330 P336 P360 P390 P400 P400	4+P340 - If inhaled: Remove pers 5+P351+P338 - If in eyes: Rinse es, if present and easy to do. Con 1 - Call a POISON CENTER or d 2 - Call a POISON CENTER or d 4 - Get medical advice/attention i 1 - Specific treatment (see supple 0 - Rinse mouth 2+P313 - If skin irritation occurs: 7+P313 - If skin irritation persists: 1 - Take off immediately all conta 2+P364 - Take off contaminated 3 - Wash contaminated clothing t 1 - Collect spillage 3+P233 - Store in a well-ventilate 5 - Store locked up 1 - Dispose of contents/container	cautiously with wa ntinue rinsing octor/physician octor/physician if y f you feel unwell emental first aid ins Get medical advice Get medical advice minated clothing clothing and wash pefore reuse	ter for several minutes. Remove contact ou feel unwell structions on this label) e/attention e/attention it before reuse tainer tightly closed
2.3. Other hazards				
lo additional information available				
.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/inform	ation on i	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
3-Fluorodiphenylamine (Main constituent)		(CAS No) 500-41-4	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text of H-phrases: see section 16			•	
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measure				
irst-aid measures general	whe	re possible). Move the affected p	ersonnel away fror	
irst-aid measures after inhalation	resp	iration. Get immediate medical a	dvice/attention.	reathing. If not breathing, give artificial
irst-aid measures after skin contact		h with plenty of soap and water.		
irst-aid measures after eye contact	pres	ent and easy to do. Continue rins	sing. Get immediat	
irst-aid measures after ingestion		th out with water. Get immediate		n to an unconscious person. Rinse rention.
.2. Most important symptoms and				
ymptoms/injuries		most important known symptoms and/or in section 11.	s and effects are d	escribed in the labelling (see section
.3. Indication of any immediate me	dical attenti	on and special treatment neede	ed	
reat symptomatically.				
ECTION 5: Firefighting measure	es			
1. Extinguishing media				
uitable extinguishing media		hol resistant foam. Carbon dioxic	le. Dry powder. Wa	ater spray. Use extinguishing media

	appropriate for surrounding fire.
5.2.	Special hazards arising from the substance or mixture
Fire haza	rd : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.

Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained I apparatus. For further information refer to section 8: "Exposure controls/personal SECCION 6: Accidental release measures         State       Personal precautions, protective equipment and emergency procedures         Seneral measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breatt vapor or spray.         S.1.1. For non-emergency personnel       Emergency procedures         Protective equipment       : Only qualified personnel equipped with suitable protective equipment. For further in refer to section 8: "Exposure controls/personal protection".         Protective equipment       : Do not attempt to take action without suitable protective equipment. For further in refer to section 8: "Exposure controls/personal protection".         S.2. Environmental precautions       : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. level.         S.3. Methods and material for containment and cleaning up       : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Sv spills into appropriate container for disposal. Ventilate area.         S.4. Reference to other sections       : Do not handle until all safety precautions have been read and understood. Ensure protective equipment. Avoid contact with skin and eyes.         C1.1. Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Ensure protective equipment. Avoid contact with skin and eyes.         C1.1. Precautions for safe s	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.	ł
Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained I apparatus. For further information refer to section 8: "Exposure controls/personal SECCION 6: Accidental release measures         State       Personal precautions, protective equipment and emergency procedures         Seneral measures       : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breatt vapor or spray.         S.1.1. For non-emergency personnel       Emergency procedures         Protective equipment       : Only qualified personnel equipped with suitable protective equipment. For further in refer to section 8: "Exposure controls/personal protection".         Protective equipment       : Do not attempt to take action without suitable protective equipment. For further in refer to section 8: "Exposure controls/personal protection".         S.2. Environmental precautions       : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. level.         S.3. Methods and material for containment and cleaning up       : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Sv spills into appropriate container for disposal. Ventilate area.         S.4. Reference to other sections       : Do not handle until all safety precautions have been read and understood. Ensure protective equipment. Avoid contact with skin and eyes.         C1.1. Precautions for safe handling       : Do not handle until all safety precautions have been read and understood. Ensure protective equipment. Avoid contact with skin and eyes.         C1.1. Precautions for safe s		
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	: Comply with applicable regulations.	
normatikle meteriale	: Keep container closed when not in use. Keep contents under inert gas.	
ncompatible materials : Refer to Section 10 on Incompatible Materials.	: Refer to Section 10 on Incompatible Materials.	
Storage area : Store in dry, cool, well-ventilated area.	: Store in dry, cool, well-ventilated area.	
SECTION 8: Exposure controls/personal protection	s/personal protection	
8.1. Control parameters		

Other information	: Safety shoes. 29 CFR 1910.1	36: Foot Protection.	
Respiratory protection	: In case of inadequate ventilat Protection.	on wear respiratory protection. 29 CFR 1910.13	4: Respiratory
Skin and body protection	: Wear suitable protective cloth	6	
Eye protection	: Chemical goggles or safety gl	asses. Face shield. 29 CFR 1910.133: Eye and	Face Protection.
Hand protection	: Protective gloves. 29 CFR 19	10.138: Hand Protection.	
Appropriate engineering controls		work station. Emergency eye wash fountains ar nediate vicinity of any potential exposure.	nd safety showers
8.2. Exposure controls			

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and		
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	
Boiling point	: 70 °C (@ 0.05 mm Hg)	
Flash point	: > 110 °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	
Molecular mass	: 187.2129 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	litional information available	
10.2.	Chemical stability	
The pro	oduct is stable at normal handling and storage conditions.	
10.3.	Possibility of hazardous reactions	
No add	litional information available	
10.4.	Conditions to avoid	
Keep away 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

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

3-Fluorodiphenylamine (500-41-4)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight

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3-Fluorodiphenylamine (500-41-4)		
ATE US (gases)	700.000 ppmV/4h	
ATE US (vapors)	3.000 mg/l/4h	
ATE US (dust, mist)	0.500 mg/l/4h	
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)	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
SECTION 12: Ecological information		

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 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	ו (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) Dangerous for the environment

- : UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
- : UN2810
- : Toxic, liquids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
  - : 6.1 Poison



- : III Minor Danger
- : Yes

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Marine pollutant	: Yes
	× · · · · · · · · · · · · · · · · · · ·
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
	TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
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.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances

Packing group (IATA) : III - Minor Danger

### **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:		<b>C</b>
3-Fluorodiphenylamine	CAS No 500-41-4	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

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#### **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:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

ni i Andali i nazaru	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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>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)</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.