

Safety Data Sheet 3630316 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/23/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form Substance name	: Substance		
	: 1,3-Diamino-2,4,5,6-tetrafluorobenzene		
CAS No	: 1198-63-6 : 3630-3-16		
Product code	C6H4F4N2		
Formula			
Synonyms	: 3-Amino-2,4,5,6-tetrafluoroaniline; 2,4,5,6-Tetrafluoro-1,3-phenylenediamine		
Other means of identification	: MFCD00039764		
	ubstance 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 safe	ty 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@synquestlabs.com - www.synquestlabs.			
1.4. Emergency telephone number	· (844) 522 4086 (2E Company Account 10060)		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)		
SECTION 2: Hazard(s) identification	bn .		
2.1. Classification of the substance of	r mixture		
STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16			
2.2. Label elements GHS-US labeling			
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	GHS07 • Warning		
Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation		
	<ul> <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)						
Not applicable						
SECTION 3: Composition/information on ingredients						
3.1. Substance						
Substance type : Mono-constituent						
Name	Product identifier % Classification (GHS-US)					
1,3-Diamino-2,4,5,6-tetrafluorobenzene (Main constituent)		(CAS No) 1198-63-6	<= 100	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 :		e of accident or if you feel unwell, seek r possible). Move the affected personnel				
First-aid measures after inhalation :	Remo respir	ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial		
First-aid measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.		
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention.						
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				unconscious person. Rinse		
4.2. Most important symptoms and effects,	both a	acute and delayed				
Symptoms/injuries :	Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.					
4.3. Indication of any immediate medical at	tentio	and special treatment needed				
Treat symptomatically.						
SECTION 5: Firefighting measures						
5.1. Extinguishing media						
Suitable extinguishing media :		ol resistant foam. Carbon dioxide. Dry po oriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media		
5.2. Special hazards arising from the subst	ance o	or mixture				
Fire hazard :	Thern	nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.		
5.3. Advice for firefighters						
Firefighting instructions :	In case of fire: Evacuate area.					
Protection during firefighting :		gas tight chemically protective clothing i atus. For further information refer to sect				
SECTION 6: Accidental release measures						
6.1. Personal precautions, protective equipment and emergency procedures						
		ate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.		
6.1.1. For non-emergency personnel	6.1.1. For non-emergency personnel					
Emergency procedures :						
6.1.2. For emergency responders						
Protective equipment :	Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".					
6.2. Environmental precautions						

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up				
For containment	Stop leak if safe to do so.			
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.			
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 dust, mist, spray. 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, includi	ng any incompatibilities			

Technical measures	Comply with applicable regulations.
Storage conditions	Keep container closed when not in use.
Incompatible 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 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 physical an	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 131 - 132.5 °C
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
Specific gravity / density	: 1.35 g/ml (@ 20 °C)

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Molecular mass	: 180.1 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 addi	tional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
Keep av	way 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

SECTI	SECTION 12: Ecological information				
12.1.	Toxicity				
No addit	ional information available				
12.2.	Persistence and degradability				
No addit	No additional information available				
12.3.	Bioaccumulative potential				
No additional information available					
12.4.	Mobility in soil				
No addit	ional information available				

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### 12.5. Other adverse effects

No additional 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 informat	ion			

### 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

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SECTION	15' Re	dullator\	/ informa	tion
		galatory		

#### 15.1. US Federal regulations

#### 1,3-Diamino-2,4,5,6-tetrafluorobenzene (1198-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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**

#### 1,3-Diamino-2,4,5,6-tetrafluorobenzene (1198-63-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **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:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	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.