

Safety Data Sheet 3630327 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/10/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1,2-Diamino-3,4,5-trifluorob	enzene	
CAS No	: 168966-54-9		
Product code	: 3630-3-27		
Formula	: C6H5F3N2		
Synonyms	: 3,4,5-Trifluorobenzene-1,2-	diamine	
Other means of identification	: MFCD01569524		
1.2. Relevant identified uses of the	substance or mixture and uses ad	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev		
1.3. Details of the supplier of the sa	afety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab 1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	any Account 10060)	
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling	•		
Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	GHS07 : Warning	~	
nazard statements (Gn3-03)	: H315 - Causes skin irritatio H319 - Causes serious eye H335 - May cause respirato	irritation	
Precautionary statements (GHS-US)	P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P312 - Call a POISON CEN P321 - Specific treatment (s P332+P313 - If skin irritation P337+P313 - If eye irritation P362+P364 - Take off cont P403+P233 - Store in a wel P405 - Store locked up	ly after handling or in a well-ventilated area ves/protective clothing/eye protection/face protect ash with plenty of soap and water move person to fresh air and keep comfortable fo es: Rinse cautiously with water for several minute	r breathing s. Remove contac
11/10/2017	EN (English US)	SDS ID: 3630327	Page 1

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

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 : M	ono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1,2-Diamino-3,4,5-trifluorobenzene (Main constituent)	(CAS No) 168966-54-9	<= 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			
	case of accident or if you feel unwell, seek nere possible). Move the affected personnel		
	emove person to fresh air and keep comforta spiration. Get medical advice/attention.	able for breathing	g. If not breathing, give artificial
First-aid measures after skin contact : W	ash with plenty of soap and water. Get medi	cal advice/atten	tion.
	mediately flush eyes thoroughly with water t esent and easy to do. Continue rinsing. Get		-
	NOT induce vomiting. Never give anything buth out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effects, both acute and delayed			
	e most important known symptoms and effe 2) and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical atter	tion and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media : AI	cohol resistant foam. Carbon dioxide. Dry po propriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the substant	ce or mixture		
Fire hazard : Th	ermal decomposition generates: Carbon ox	ides. Hydrogen i	fluoride. Nitrogen oxides.
5.3. Advice for firefighters			
Firefighting instructions : In	case of fire: Evacuate area.		
	ear gas tight chemically protective clothing i paratus. For further information refer to sect		
SECTION 6: Accidental release measures	.		
6.1. Personal precautions, protective equipme			
	acuate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel	by gualified personnal assumed with evitable	o protoctivo a	inmont mov intervene
Emergency procedures : O	nly qualified personnel equipped with suitabl	e protective equ	iipment may intervene.
6.1.2. For emergency responders Protective equipment : Do	o not attempt to take action without suitable	protective equip	ment. For further information
re	fer to section 8: "Exposure controls/persona		
6.2. Environmental precautions			

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

Safety Data Sheet

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

3 3 3 3	
6.3. Methods and material for containing	nent 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, include	ding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.
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

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Solid Color : No data available Odor : No data available Odor threshold No data available : No data available pН : No data available Melting point Freezing point : No data available : No data available Boiling point 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

Relative density

Molecular mass

Relative vapor density at 20 °C

: 162.11 g/mol

No data availableNo data available

: No data available

Safety Data Sheet

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

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 sto	prage 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	
Acids. Acid chlorides. Acid anhydrides. Strong o	xidizing agents.
10.6. Hazardous decomposition products	S
Under normal conditions of storage and use, has fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informat	tion
11.1. Information on toxicological effects	3
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

symptom	IS	fingernails turn blue).
SECTI	ON 12: Ecological information	
12.1.	Toxicity	
No addit	ional information available	
12.2.	Persistence and degradability	
No addit	ional information available	
12.3.	Bioaccumulative potential	
No addit	ional information available	
12.4.	Mobility in soil	
No addit	onal information available	

Potential Adverse human health effects and

: Overexposure to this material may result in methemoglobinemia. Cyanosis may occur (lips and

Safety Data Sheet

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

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerat	ions
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	on

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 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 (15CA) Inventory exception.		
1,2-Diamino-3,4,5-trifluorobenzene	CAS No 168966-54-9	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:

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
	Skin Irrit. 2 STOT SE 3 H315 H319

Safety Data Sheet

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

NFPA health hazard	: 3 - Short exposure could cause serious temporary or 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	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 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)
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.