

Safety Data Sheet 41583Y3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/26/2016 Version: 1.0

ECTION 1: Identification	
.1. Identification	
roduct form	: Substance
ubstance name	: 3,4-Difluoro-D-phenylalanine, N-Fmoc protected
AS No	: 198545-59-4
roduct code	: 4158-3-Y3
ormula	: C24H19F2NO4
ther means of identification	: MFCD00672551
	substance or mixture and uses advised against
se of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the saf	iety data sheet
ynQuest Laboratories, Inc.	
.O. Box 309 lachua, FL 32615 - United States of Americ (386) 462-0788 - F (386) 462-7097	
ifo@synquestlabs.com - www.synquestlabs	<u>s.com</u>
.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
ECTION 2: Hazard(s) identificati	on
1. Classification of the substance	
lassification (GHS-US)	
kin Irrit. 2 H315 - Causes skin irritation	
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements HS-US labeling	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 2. Label elements HS-US labeling	rritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements HS-US labeling	rritation y irritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements HS-US labeling azard pictograms (GHS-US)	rritation y irritation : i = i = i = i = i = i = i = i = i = i =
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements HS-US labeling azard pictograms (GHS-US) ignal word (GHS-US) azard statements (GHS-US)	rritation y irritation : CHS07 : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator ull text of H-phrases: see section 16 .2. Label elements HS-US labeling azard pictograms (GHS-US)	rritation y irritation : i = i = i = i = i = i = i = i = i = i =

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				
.4. Unknown acute toxicity (GHS US)				
ot applicable				
ECTION 3: Composition/informatic	on on in	gredients		
1. Substance				
substance type	: Mond	-constituent		
Name		Product identifier	%	Classification (GHS-US)
3,4-Difluoro-D-phenylalanine, N-Fmoc protected (Main constituent)		(CAS No) 198545-59-4	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16			•	
.2. Mixture				
lot applicable				
ECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general	where	se of accident or if you feel unwell, seek possible). Move the affected personne	el away from the	contaminated area.
irst-aid measures after inhalation	respii	ove person to fresh air and keep comfor ation. Get medical advice/attention.		
irst-aid measures after skin contact		with plenty of soap and water. Get me		
irst-aid measures after eye contact	prese	diately flush eyes thoroughly with water nt and easy to do. Continue rinsing. Ge	t medical advice	/attention.
irst-aid measures after ingestion		OT induce vomiting. Never give anythin out with water. Get medical advice/att		unconscious person. Rinse
2. Most important symptoms and effe				
ymptoms/injuries		nost important known symptoms and ef ind/or in section 11.	fects are describ	ed in the labelling (see section
.3. Indication of any immediate medica reat symptomatically.	I attentio	n and special treatment needed		
SECTION 5: Firefighting measures				
.1. Extinguishing media				
uitable extinguishing media		ol resistant foam. Carbon dioxide. Dry p priate for surrounding fire.	oowder. Water sp	oray. Use extinguishing media
.2. Special hazards arising from the su	bstance of	or mixture		
ire hazard	: Therr	nal decomposition generates: Carbon o	xides. Hydrogen	fluoride. Nitrogen oxides.
3. Advice for firefighters				
irefighting instructions	: In cas	se of fire: Evacuate area.		
rotection during firefighting		gas tight chemically protective clothing atus. For further information refer to se		
ECTION 6: Accidental release mea	sures			
.1. Personal precautions, protective ec				
eneral measures	: Evac	uate unnecessary personnel. Ensure ac	lequate air ventila	ation. Do not breathe dust.
1.1. For non-emergency personnel mergency procedures	: Only	qualified personnel equipped with suital	ble protective equ	upment may intervene.
.1.2. For emergency responders	-			
1.2. For emergency responders rotective equipment		ot attempt to take action without suitable to section 8: "Exposure controls/person		oment. For further information
2. Environmental precautions				
void release to the environment. Notify authori	ties if proc	luct enters sewers or public waters.		
.3. Methods and material for containm	ent and c	eaning up		
or containment		leak if safe to do so.		
2/08/2016		lish US)	SDS ID: 41583Y3	3 2/6
		,	555 iD. 4 100313	2/0

Safety Data Sheet

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

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 sect	ons
No additional information available	
SECTION 7: Handling and	storage
7.1. Precautions for safe har	ndling
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 stor	age, including 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.

5

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 and Physical state	: Solid
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	: 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
Molecular mass	: 423.41 g/mol
Solubility	: No data available
Log Pow	: No data available

Safety Data Sheet

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

0	/ Monday, March 26, 2012 / Rules and Regulations
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 rea	activity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling	g and storage conditions.
10.3. Possibility of hazardous rea	actions
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition	products
Under normal conditions of storage and fire, see Section 5.	I use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological in	formation
11.1. Information on toxicologica	I effects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.

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

SECT	ION 12: Ecological information		
12.1.	Toxicity		
No add	litional information available		
12.2.	Persistence and degradability		
No add	litional information available		
12.3.	Bioaccumulative potential		
No add	litional information available		
12.4.	Mobility in soil		
No add	litional information available		
12.5.	Other adverse effects		
No add	litional information available		

No additional information available

Safety Data Sheet

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

SECTION 13: Disposal considera	ntions
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

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 (TSCA) inventory except for:

3,4-Difluoro-D-phenylalanine, N-Fmoc protected CAS No 198545-59-4 100%		040 100 130343-33-4	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

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

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	: 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.