

9,9'-Bis(4-aminophenyl)fluorene Safety Data Sheet 3730112 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/15/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 9,9'-Bis(4-aminophenyl)fluorene
CAS No	: 15499-84-0
Product code	: 3730-1-12
	: C25H20N2
Formula	
Synonyms	: 4,4'-(9-Fluorenylidene)dianiline; FDA
Other means of identification	: MFCD00039156
	ance 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 d	lata 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.com	1
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 mi	ixture
Classification (GHS-US)	
Acute Tox. 4 (Oral)H302 - Harmful if sw.Acute Tox. 4 (Dermal)H312 - Harmful in coAcute Tox. 4 (Inhalation)H332 - Harmful if inhSkin Irrit. 2H315 - Causes skin iEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause re	ntact with skin aled irritation us eye irritation
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	E GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label)
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	P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed 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/informati	on on in	gredients		
3.1. Substance				
Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
9,9'-Bis(4-aminophenyl)fluorene (Main constituent)		(CAS No) 15499-84-0	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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		se of accident or if you feel unwell, seek e possible). Move the affected personne		
First-aid measures after inhalation	: Rem	ove person to fresh air and keep comfor ration. Get immediate medical advice/at	table for breath	
First-aid measures after skin contact	: Wash	n with plenty of soap and water. Get imm	nediate medical	advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate 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 immediate medical advice/attention.			
4.2. Most important symptoms and effe				· · · · · · · · ·
Symptoms/injuries		nost important known symptoms and ef and/or in section 11.	fects are descril	bed in the labelling (see section
4.3. Indication of any immediate medic	al attentio	n and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	oowder. Water s	spray. Use extinguishing media
5.2. Special hazards arising from the s				
Fire hazard	: Therr	mal decomposition generates: Carbon c	xides. Nitrogen	oxides.
5.3. Advice for firefighters				
Firefighting instructions		se of fire: Evacuate area.		1.1 1.2
Protection during firefighting		r gas tight chemically protective clothing ratus. For further information refer to se		
SECTION 6: Accidental release mea	asures			
6.1. Personal precautions, protective e	quipment	and emergency procedures		
General measures	: Evac	uate unnecessary personnel. Ensure ac	lequate air venti	ilation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suital	ole protective ed	quipment may intervene.

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6.1.2. For emergency respon	nders
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 precau	tions
Avoid release to the environment.	Notify authorities if product enters sewers or public waters.
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 see	ctions
No additional information available	9
SECTION 7: Handling and	1 storage
7.1. Precautions for safe h	
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 st	orage, 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.

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	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 237 - 239 °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

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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	: 348.44 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	itional 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	itional 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
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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	1		
12.1.	Toxicity			
No add	tional information available			
12.2.	Persistence and degradability			
No add	tional information available			
12.3.	Bioaccumulative potential			
No add	tional information available			
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

CECTION 42: Dispacel consideration		
SECTION 13: Disposal consideration	pns	
13.1. Waste treatment methods Waste treatment methods Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with Dispose of contents/container in accordance with lie Recycle the material as far as possible. 	-
SECTION 14: Transport information	n	
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	on .	
15.1. US Federal regulations		
All components of this product are listed, or e Substances Control Act (TSCA) inventory ex-	excluded from listing, on the United States Environmental cept for:	Protection Agency Toxic
9,9'-Bis(4-aminophenyl)fluorene	CAS No 15499-84-0	100%
CFR §372.38(a) subject to the reporting requ and 40 CFR Part 372.	xic chemical or chemicals in excess of the applicable de r irements of section 313 of Title III of the Superfund Amer	
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

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Full text of H-phrases:		
Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
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
H302		Harmful if swallowed
H312		Harmful in contact with skin
H315		Causes skin irritation
H319		Causes serious eye irritation
H332		Harmful if inhaled
H335		May cause respiratory irritation
NFPA health hazard		exposure could cause temporary e residual injury unless prompt
NFPA fire hazard : 0 - Materials that will not		burn.
NFPA reactivity : 0 - Normally stable and are not reactiv		under fire exposure conditions,
HMIS III Rating		~

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and v 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.

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