

# 2-Amino-4-fluorobenzoic acid

Safety Data Sheet 4657304 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/30/2015 Version: 1.0

1.1       Identification         Product form       ::       Substance         Substance name       ::       2-Amino-4-fluoroberzoic add         CAS No       ::       445-322         Product code       ::       485-73-04         Formula       ::       C7H6FNO2         Synomms       ::       4-Fluoroanthranilic add         Dher means of identification       ::       McD00075553         12.       Relevant identified uses of the substance 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 data sheet       SynOuest Laboratories, Inc.         SynOuest Laboratories, Inc.       C. O. Do 200       Scientific research and development         1.4.       Emergency telephone number       :       (44) 523-4086 (3E Company - Account 10089)         SECTION 2.1 Hazard(s) identification       Scientific       Scientification         1.4.       Emergency telephone number       :       (44) 523-4086 (3E Company - Account 10089)         SECTION 2.1 Hazard(s) identification       :       :       :         1.4.       Emergency telephone number       :       <	SECTION 1: Identification	
Product form       I: Substance         Jubistance name       I: 2. Antino-Hunorbenzoic acid         JAS No       I: 44673-23         Yoduct code       I: 46573-04         Simula       I: C/H6FNO2         Synoryms       I: 4Fluoroanthranilic acid         Dher means of identification       I: MFCD00075553         2.7       Relevant identified uses of the substance or mixture and uses advised against         Jacob The substance/mixture       I: Laboratory chemicals         Murafacture of substances       Scientific research and development         Job Datalis of the substances       Scientific research and development         Jacob Laboratories, Inc.       Job Box 2009         Viso Data Jacob       Job Box 2009         Statistication of the substance or mixture       Job Box 2009         Statistication of the substance or mixture       Job Box 2009         Stassification of the substance or mixture       Job Box 2009         Stassification of the substance or mixture       Job Box 2009         Stassification of He substance or mixture       Job Box 2009         Stassification of He substance or mixture       Job Box 2009         Stassification of He substance or mixture       Job Box 2009         Stassification of He substance or mixture       Job Box 2009         <		
biastance name       : 2.4mino.4.14urobenzoic acid         AS No       : 449-32-2         Croduct code       : 4657-304         Formula       : C7H6FN02         Synonyms       :: 4.4Pioconnthranlic acid         Other means of identification       :: WFCD00075553         12. <b>Relovant identified uses of the substance or mixture and uses advised against</b> Jaco for the substance/mixture       : Substance Based Status of America         13. <b>Details of the supplier of the safety data sheet</b> YonOpent Leboratories, Inc.       : Substance Status of America         16. Borelis of the supplier of the safety data sheet       : Substance Participation Status of America         17. Borelis of the supplier of the safety data sheet       : Substance Participation Status of America         17. Borelis of the substance or mixture       : Substance Participation Status of America         17. Borelis of the substance or mixture       : Substance Participation Status of America         17. Borelis of the substance or mixture       : Substance Participation Status of America         17. Borelis coline of the substance or mixture       : Substance Participation Status of America         17. Borelis coline of the substance or mixture       : Substance Participation Status of America         17. Classification of the substance or mixture       : Substance Participation Status of Amer		: Substance
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reduct code : 4657-3-04 cmula : C7H6FNO2 yonyms : 4-Fluoroanthranilic cid ther means of identification : MFCD00075553 2. Relevant identified uses of the substance or mixture and uses advised against ise of the substance/mixture : diaboratory chemicals Manufacture of substances so the substance/mixture of substance and development 3. Details of the subplier of the safety data sheet yonQuest Laboratories, Inc. 0. Box 300 laborator, F1 (386) 462-709 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(5) identification 4. Emergency telephone number 1. Classification of the substance or mixture 2. Label elements HS-US labeling lazard pictograms (GHS-US) E H315 - Causes skin irritation H33 - May cause respiratory irritation H33 - May		
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se of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 3. Details of the supplier of the safety data sheet ym/Quest Laboratories, Inc. 0. Box 309 Sanha, FL 32615 - United States of America (386) 462-0788 + F (386) 462-7097 for Bayroquestlabs.com - www.synquestlabs.com 4. Energency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) ECTION 2: Hazard(s) Identification 1. Classification of the substance or mixture hassification (DF4-US) win Imt. 2 H315 - Causes skin infration rg Imt. 3 H315 - Causes skin infration rg Imt. 3 H315 - Causes skin infration H319 - Causes skin infration H319 - Causes skin infration H319 - Causes skin infration H319 - Causes skin infration rg 204 Ward MGH5-US) F244 - Wash skin throcophy infration H319 - Causes skin infration H320 - Myc Causes reprintory infration		
Manufacture of substances         Scientific research and development         3. Details of the supplier of the safety data sheet         ynQuest Laboratories, Inc.         0. Box 309         Idaolus, FL 32615 - United States of America (369) 462-0785 + (7896) 462-7087         Idaolus, Econ - www.synquestlabs.com         4.4       Emergency telephone number         mergency number       : (844) 523-4086 (3E Company - Account 10069)         ECTION 21 Hazard(s) identification         1.       Classification of the substance or mixture         tassification (0HS-US)         in Int. 2       H355 - Causes skin irritation         ye Int. 2A H319 - Causes serious eye irritation         ye Int. 2A H319 - Causes serious eye irritation         TOT SE 3       H335 - May cause respiratory irritation         azard pictograms (GHS-US)       : Warning         azard pictograms (GHS-US)       : Warning         recautionary statements (GHS-US)       : P361 - Avoid breathing dust, mist, spray         P264 - Wash sin thoroughly after handling       P271 - Use only outdoors or in a well-wenilated area P280 - Waer protective gloves/protective dohing/expretection Apes part at easy to be conting and part of protection P292+P362 - If on skin: Wash with pleny of soap and water         P281 - Vasic Dreact and well breater or sub-part at easy to be conting and pareprotection P392+P364 - If hask with web pleny of soap a	2. Relevant identified uses of the s	substance or mixture and uses advised against
ynQuest Laboratories, Inc. O. Box 309 Jachua, FL 32615 - United States of America (386) 462-0788 - F (386) 462-7087 ioli Seyrquestlatos.com - www.synquestlatos.com 4. Emergency telephone number mergency number : (844) 523-4086 (3E Company - Account 10069) EECTION 2: Hazard(s) Identification 1. Classification of the substance or mixture Hassification of H-Phrases: see section 16 2. Label elements HIS-US labeling Jazard pictograms (GHS-US) ignal word (GHS-US) ignal word (GHS-US) EVALUATION ignal word (GHS-US) EVALUATION ignal word (GHS-US) EVALUATION Intervention of the substance or mixture Hassification of the substance respiratory initiation UII text of H-phrases: see section 16 2. Label elements HIS-US labeling Jazard pictograms (GHS-US) EVALUATION Ignal word (GHS-US) Ignal word (GHS-	se of the substance/mixture	Manufacture of substances
(a) Box 309         Bachua, FL 32615 - United States of America         (386) 462-0788 - F (386) 462-7097         fo@synquestlabs.com - www.synquestlabs.com         4. Emergency telephone number         mergency number       : (844) 523-4086 (3E Company - Account 10069)         ECTION 2: Hazard(s) identification         1. Classification of the substance or mixture         lassification (GHS-US)         kin Int. 2. H315 - Causes skin irritation         yel mit. 2A         H319 - Causes serious eye irritation         ull text of H-phrases: see section 16         2. Label elements         HS-US labeling         azard pictograms (GHS-US)         ignal word (GHS-US)         ignal word (GHS-US)         : Warning         ignal word (GHS-US)         : Warning         : Reading a construction of the substance or mixture of the substance or protection of the substance or protection of the substance or protection of the substance respective of the substance or protection of the substance or	.3. Details of the supplier of the saf	fety data sheet
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1.       Classification of the substance or mixture         classification (GHS-US)       kin Iriti 2       H315 - Causes skin iritiation         yel Irit. 2A       H319 - Causes serious eye irritation       Tor SE 3         You Pirit. 2A       H319 - Causes serious eye irritation         You Pirit. 2A       H319 - Causes serious eye irritation         You Pirit. 2B       H335 - May cause respiratory irritation         Ull text of H-phrases: see section 16         2.       Label elements         iBased of the substance or with substance or with the subst	mergency number	: (844) 523-4086 (3E Company - Account 10069)
Hazard pictograms (GHS-US)       :         GHS07         Signal word (GHS-US)       :         Hazard statements (GHS-US)       :         H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation         Precautionary statements (GHS-US)       :         P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of scap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P312 - Cail a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P332+P313 - If skin irritation occurs: Get medical advice/attention P332+P313 - If skin irritation parsits: Get medical advice/attention P332+P333 - If skin irritation parsits: Get medical advice/attention P332+P333 - If skin irritation parsits: Get medical advice/attention P332+P333 - If eye irritation parsits: Get medical advice/attention P332+P333 - If skin irritation parsits: Get medical advice/attention P332+P333 - Store in a well-ventilated place. Keep container tightly closed	Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye isSTOT SE 3H335 - May cause respirator	irritation
ignal word (GHS-US)       : Warning         lazard statements (GHS-US)       : H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation         brecautionary statements (GHS-US)       : P261 - Avoid breathing dust, mist, spray P2664 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P332 - 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 conta 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) P332+P313 - If skin irritation persists: Get medical advice/attention P337+P313 - If eye irritation persists: 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	kin Irrit. 2 H315 - Causes skin irritation ye Irrit. 2A H319 - Causes serious eye i TOT SE 3 H335 - May cause respirator full text of H-phrases: see section 16	irritation
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P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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 conta lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell 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	ikin Irrit. 2 H315 - Causes skin irritation eye Irrit. 2A H319 - Causes serious eye in TOT SE 3 H335 - May cause respirator full text of H-phrases: see section 16 .2. Label elements GHS-US labeling lazard pictograms (GHS-US)	irritation ry irritation
P501 - Dispose of contents/container to an approved waste disposal plant	Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye i STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 <b>2.2. Label elements</b> <b>GHS-US labeling</b> Hazard pictograms (GHS-US)	irritation ry irritation : $\overbrace{c}_{GHS07}$ : Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation

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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 on in	gredients		
3.1. Substance		5		
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
2-Amino-4-fluorobenzoic acid (Main constituent)		(CAS No) 446-32-2	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16		1		,
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 i possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta ration. 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/atter	ntion.
First-aid measures after eye contact		diately flush eyes thoroughly with water t ant and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		OT induce vomiting. Never give anything nout with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effe	ects, both	acute and delayed		
Symptoms/injuries	: The n 2.2) a	nost important known symptoms and effe ind/or in section 11.	cts are describ	ed in the labelling (see section
4.3. Indication of any immediate medic	al attentio	n and special treatment needed		
Freat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the se				
Fire hazard	: Therr	nal decomposition generates: Carbon ox	des. Hydrogen	fluoride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions	: In cas	se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective clothing i atus. For further information refer to sect		
SECTION 6: Accidental release mea				
5.1. Personal precautions, protective e				
General measures	: Evaci	uate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
5.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suitabl	e protective equ	uipment may intervene.
6.1.2. For emergency responders	· Do or	at attempt to take action without avitable		mont. For further information
Protective equipment 6.2. Environmental precautions		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information

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

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6.3. Methods and material for con	tainment 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	
<b>SECTION 7: Handling and stora</b>	age
7.1. Precautions for safe handling	J
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, i	ncluding 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 temperature	: 2 - 8 °C Use explosion proof refrigerator
Storage area	: Store in dry, 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 chemica	l properties		
9.1. Information on basic physical and	I chemical properties		
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: 194 - 196 °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		
12/08/2016	EN (English US)	SDS ID: 4657304	3/6

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Molecular mass	: 155.13 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

ional information available
Chemical stability
luct is stable at normal handling and storage conditions.
Possibility of hazardous reactions
ional information available
Conditions to avoid
ay from heat, sparks and flame.
Incompatible materials
ic a

### 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	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	ional information available

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## 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consider	ations
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 informa	tion

### **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

2-Amino-4-fluorobenzoic acid CAS No 446-32-2 100%	Substances Control Act (15CA) inventory exception.		
		CAS NO 446-32-2	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

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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.