

(S)-1-(3,5-Difluorophenyl)ethylamine Safety Data Sheet 36303S1 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/24/2016 Version: 1.0

1.1 Identification	
1.1. Identification	
Product form	: Substance
Substance name	: (S)-1-(3,5-Difluorophenyl)ethylamine
CAS No	: 444643-16-7
Product code	: 3630-3-S1
Formula	: C8H9F2N
Synonyms	: (S)-1-(3,5-Difluorophenyl)ethan-1-amine
Other means of identification	: MFCD06761827
1.2. Relevant identified uses of the s	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 saf	iety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	on
2.1. Classification of the substance	or mixture
Classification (GHS-US)	
Eye Dam. 1 H318 - Causes seriou STOT SE 3 H335 - May cause res Full text of H-phrases: see section 16	
2.2. Label elements GHS-US labeling	: GHS05 GHS07
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	: GHS05 CHS07 : Danger
2.2. Label elements	_
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Danger : H227 - Combustible liquid H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage

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		P330 P332 P362 P370 P403 P403 P405	 Specific treatment (see supplemental file Rinse mouth +P313 - If skin irritation occurs: Get medi +P364 - Take off contaminated clothing a +P378 - In case of fire: Use dry sand, dry +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. Store locked up Dispose of contents/container to an ap 	ical advice/atten and wash it befo / chemical or alo Keep container Keep cool	ntion are reuse cohol-resistant foam to extinguish tightly closed
2.3.	Other hazards				
	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app					
	ION 3: Composition/information	on in	gredients		
3.1.	Substance				
Substar	nce type	: Mono	p-constituent		
Name			Product identifier	%	Classification (GHS-US)
	3,5-Difluorophenyl)ethylamine onstituent)		(CAS No) 444643-16-7	<= 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not app					
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	J.	wher	se of accident or if you feel unwell, seek i e possible). Move the affected personnel	away from the o	contaminated area.
		respi	ove person to fresh air and keep comforta ration. Get immediate medical advice/atte	ention.	
		medi	with plenty of soap and water. Remove cal advice/attention.		-
		prese	ediately flush eyes thoroughly with water t ent and easy to do. Continue rinsing. Get	immediate med	ical advice/attention.
First-aid		mout	OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2.	Most important symptoms and effects				
		2.2) a	nost important known symptoms and effe and/or in section 11.		ŨŇ
Sympto	ms/injuries after inhalation		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
4.3.	Indication of any immediate medical a	attentic	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable			nol resistant foam. Carbon dioxide. Dry po opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the subs	stance	or mixture		
Fire haz	zard	: Ther	mal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
Explosio	on hazard		of explosion if heated under confinement iners. May form flammable/explosive vap		ay or fog for cooling exposed
5.3.	Advice for firefighters				
	the set to be a final set of the set		an of fire: Evenuete area. Fight fire remot	elv due to the rig	ak of ovalopion
Firefigh	ting instructions	. in ca	se of fire: Evacuate area. Fight fire remot		sk u explusion.

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6.1. Personal precautions, protective equipment and emergency procedures General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, furnes, vapor or spray. 6.1.1. For non-emergency personnel Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. 6.1.2. For emergency responders Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Emergency procedures : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition. 6.2. Environmental precautions Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. Methods for cleaning up : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Use explosion-proof equipment with care because residual vapors are flammable. Other information : For disposal of solid materials or residues relet to section 13 : "Disposal considerations". 6.4. Reference to other sections : Do not handle until all safety precautions have been read and understood. Ensure good	SECTION 6: Accidental release meas	ures
General measures E Vacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray. General measures E Vacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray. General measures C only qualified personnel equipped with suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Emergency procedures Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Emergency procedures Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition. 6.2. Environmental precautions Avoid release to the environment. Notify authorities if product enters severs or public waters. 6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. Methods for cleaning up : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up anall spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Considerations'. 6.4. Reference to other sections No additional information available : Handle empty containers w		
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Incompatible materials contents under inert gas. Refer to Section 10 on Incompatible Materials.	Technical measures	: Comply with applicable regulations.
	Storage conditions	
Storage area : Store in dry, cool, well-ventilated area.	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.

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SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	I chemical properties		
Physical state	: Liquid		
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	: 157.16 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			
SECTION 10: Stability and reactivity	ły		
10.1. Reactivity			
No additional information available			

10.2. Chemical stability

The product is stable at normal handling and storage 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. Carbon dioxide. 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			
: Oral: Harmful if swallowed.			
: Causes skin irritation.			
: Causes serious eye damage.			
: Not classified			

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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
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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

SECTION 13: Disposal conside	rations
13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport information (DOT)	ation

In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
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:

(S)-1-(3,5-Difluorophenyl)ethylamine	
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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.

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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:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

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.



100%

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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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.