

(S)-1-(2-Fluorophenyl)ethanol Safety Data Sheet 26023S2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/02/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: (S)-1-(2-Fluorophenyl)etha	nol	
CAS No	: 171032-87-4		
Product code	: 2602-3-S2		
Formula	: C8H9FO		
Synonyms	: S-OF-PEL		
Other means of identification	: MFCD03092992		
1.2. Relevant identified uses of the s	ubstance or mixture and uses a	tyised against	
Use of the substance/mixture	: Laboratory chemicals		
	Manufacture of substance Scientific research and de		
1.3. Details of the supplier of the safe	ety 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 Comp	any - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
nazaru pietograms (en e ee)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H227 - Combustible liquid H315 - Causes skin irritati H319 - Causes serious ey H335 - May cause respira	e irritation	
Precautionary statements (GHS-US)	P261 - Avoid breathing fur P264 - Wash skin thoroug P271 - Use only outdoors P280 - Wear protective gle P302+P352 - If on skin: W P304+P340 - If inhaled: R P305+P351+P338 - If in e lenses, if present and eas P312 - Call a POISON CE P321 - Specific treatment P332+P313 - If skin irritati P337+P313 - If eye irritatio	nly after handling or in a well-ventilated area ves/protective clothing/eye protection/face protectior ash with plenty of soap and water emove person to fresh air and keep comfortable for b yes: Rinse cautiously with water for several minutes.	reathing
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	P370+P378 - In case of fire: I P403+P233 - Store in a well- P403+P235 - Store in a well- P405 - Store locked up P501 - Dispose of contents/c	ventilated place. Keep conta ventilated place. Keep cool	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS	SUS)		
Not applicable			
SECTION 3: Composition/infor	mation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
(S)-1-(2-Fluorophenyl)ethanol (Main constituent)	(CAS No) 171032-87-4	<= 100	Flam. Liq. 4, H227 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 measu			
First-aid measures general	where possible). Move the af	fected personnel away from	
First-aid measures after inhalation	respiration. Get medical advic	ce/attention.	athing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and		
First-aid measures after eye contact			15 minutes. Remove contact lenses, if vice/attention.
First-aid measures after ingestion	 present and easy to do. Continue rinsing. Get medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 		
4.2. Most important symptoms an	d effects, both acute and delayed		
Symptoms/injuries	: The most important known sy 2.2) and/or in section 11.	mptoms and effects are des	cribed in the labelling (see section
4.3. Indication of any immediate r	nedical attention and special treatmer	nt needed	
Treat symptomatically.			
SECTION 5: Firefighting measu	ıres		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbo appropriate for surrounding fi		er spray. Use extinguishing media
5.2. Special hazards arising from	the substance or mixture		
Fire hazard	: Thermal decomposition gene	rates: Carbon oxides. Hydro	gen fluoride.
Explosion hazard	: Risk of explosion if heated ur containers. May form flamma		spray or fog for cooling exposed ire.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area	о ,	•
Protection during firefighting			on with self contained breathing osure controls/personal protection".
SECTION 6: Accidental release	measures		
6.1. Personal precautions, protec	tive equipment and emergency proce	dures	
General measures	: Evacuate unnecessary perso vapor or spray.	nnel. Ensure adequate air ve	entilation. Do not breathe gas, fumes,
6.1.1. For non-emergency personne	el		
Emergency procedures	: Only qualified personnel equi	pped with suitable protective	e equipment may intervene.
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6.1.2. For emergency responders		
Protective equipment : Do not attempt to take action without suitable protective equipment. For further informati 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 author	ities if product enters sewers or public waters.	
6.3. Methods and material for containm	ent 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. Sweep or shovel spills into appropriate container for disposal. Ventilate area.	
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		
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.	
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 fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
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, includ	ing any incompatibilities	
Technical measures : Comply with applicable regulations.		
Storage conditions : Keep container closed when not in use. Keep away from ignition sources.		
Incompatible materials : Refer to Section 10 on Incompatible Materials.		
Storage area : Store in dry, cool, well-ventilated area.		

SECTIO	DN 8: Exposure controls/personal protection
8.1.	Control parameters
No additio	onal 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.

rsical and chemical properties : Liquid	
: Liquid	
: No data available	
	No data availableNo data availableNo data available

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Boiling point	: 110 °C (@ 135 mm Hg)
Flash point	: 90 °C
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
Specific gravity / density	: 1.1 g/ml (@ 20 °C)
Molecular mass	: 140.15 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	

Refractive index

: 1.505 (@ 20 °C)

SECTION 10: Stability and reactivity

10.1.	Reactivity	
No addi	tional information available	
10.2.	Chemical stability	
The pro	duct is stable at normal handling and	storage conditions.
10.3.	Possibility of hazardous reaction	IS
No addi	tional 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 produ	icts
	ormal conditions of storage and use, e Section 5.	hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECT	ION 11: Toxicological inform	nation
11.1.	Information on toxicological effe	cts
Acute to	DXICITY	: Not classified
Skin co	rrosion/irritation	: Causes skin irritation.
Serious	eye damage/irritation	: Causes serious eye irritation.
Respira	tory or skin sensitization	: Not classified
Germ c	ell mutagenicity	: Not classified
Carcino	genicity	: Not classified

Aspiration hazard

: Not classified

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SECT	ION 12: Ecological information	
12.1.	Toxicity	
No addi	itional 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 consideration	S
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	
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, 31HN2, 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
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	

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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-(2-Fluorophenyl)ethanol CAS No 171032-87-4 100%			
	(S)-1-(2-Fluorophenyl)ethanol	CAS No 171032-87-4	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:

Full lext of n-philases.	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
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
H315	Causes skin irritation
H319	Causes serious eye irritation
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	: 2 - Must be moderately heated or exposed to relatively high temperature 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	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.