

(R)-1-(4-Fluorophenyl)ethylamine Safety Data Sheet 36303R4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/29/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: (R)-1-(4-Fluorophenyl)ethyl	amine	
CAS No	: 374898-01-8		
Product code	: 3630-3-R4		
Formula	: C8H10FN		
Other means of identification	: MFCD03093090		
1.2. Relevant identified uses of the su	ubstance or mixture and uses ac	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev	elopment	
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 America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.			
1.4. Emergency telephone number	(
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Eye Dam. 1 H318 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05 GHS07		
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H227 - Combustible liquid H314 - Causes severe skin H335 - May cause respirato		
Precautionary statements (GHS-US)	 P210 - Keep away from hea P260 - Do not breathe fum P264 - Wash skin thorough P271 - Use only outdoors of P280 - Wear protective glov P301+P330+P331 - If swal P303+P361+P353 - If on sl skin with water/shower P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy P310 - Immediately call a F P321 - Specific treatment (P363 - Wash contaminated P370+P378 - In case of fire 	At/sparks/open flames/hot surfaces. No smoking es, mist, spray, vapors ly after handling r in a well-ventilated area res/protective clothing/eye protection/face protect owed: rinse mouth. Do NOT induce vomiting in (or hair): Take off immediately all contaminated move person to fresh air and keep comfortable fo es: Rinse cautiously with water for several minute to do. Continue rinsing OISON CENTER or doctor/ physician see supplemental first aid instructions on this labe	d clothing. Rinse r breathing s. Remove contact I)
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- P403+P235 Store in a well-ventilated place. Keep cool
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

	P501 - Dispose of contents	s/container to an approved wast	e 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 ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
(R)-1-(4-Fluorophenyl)ethylamine (Main constituent)	(CAS No) 374898-01-8	<= 100	Flam. Liq. 4, H227 Skin Corr. 1A, H314 Eye Dam. 1, H318 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	. In some of easidest on if we	. faal waxall aanly maaliaal advi	
First-aid measures general	where possible). Move the	u feel unwell, seek medical advi affected personnel away from t	he contaminated area.
First-aid measures after inhalation	: Remove person to fresh ai respiration. Get immediate	•	thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap a medical advice/attention.	and water. Remove contaminate	d clothing and shoes. Get immediate
First-aid measures after eye contact		roughly with water for at least 1 ontinue rinsing. Get immediate n	5 minutes. Remove contact lenses, if nedical advice/attention.
First-aid measures after ingestion		Never give anything by mouth to immediate medical advice/atten	
4.2. Most important symptoms and effe	ects, both acute and delayed		
Symptoms/injuries	: The most important known 2.2) and/or in section 11.	symptoms and effects are desc	cribed in the labelling (see section
Symptoms/injuries after inhalation	: Material is destructive to tis shortness of breath, heada		es and upper respiratory tract. Cough,
4.3. Indication of any immediate medic	al attention and special treatm	nent needed	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Ca appropriate for surrounding		r spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance or mixture		
Fire hazard	: Thermal decomposition ge	nerates: Carbon oxides. Hydrog	en fluoride. Nitrogen oxides.
Explosion hazard		under confinement. Use water s mable/explosive vapor-air mixtu	spray or fog for cooling exposed re.
5.3. Advice for firefighters			

SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective eq	uipment and emergency procedures
General I	neasures	 Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.

: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

Firefighting instructions

Protection during firefighting

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6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ncy 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 re	elease to the environment. Notify author	es if product enters sewers or public waters.
6.3.	Methods and material for containm	nt and cleaning up
For con	tainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Method	s 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 in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addi	tional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Addition	nal hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precaut	ions 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	e 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	ig any incompatibilities
Technic	al 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.
Incompa	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	area	: Store in dry, cool, well-ventilated area.
SECT	ION 8: Exposure controls/pers	onal protection
8.1.	Control parameters	
No addi	tional information available	
8.2.	Exposure controls	
Appropr	riate engineering controls	: Ensure good ventilation of the work station. Emergency eve wash fountains and safety showers

SECTION 9: Physical and chemical properties		
Other information : Safety shoes. 29 CFR 1910.136: Foot Protection.		
Respiratory protection : In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.		
Skin and body protection : Wear suitable protective clothing.		
Eye protection : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.		
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.	
should be available in the immediate vicinity of any potential exposure.		

Physical state : Liquid Color : No data available Odor : No data available	9.1.	Information on basic physical and	chemical properties
	Physica	state	: Liquid
Odor : No data available	Color		: No data available
	Odor		: No data available
Odor threshold : No data available	Odor thr	eshold	: No data available

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pH : No data available		
Melting point	: -30 °C	
Freezing point	: No data available	
Boiling point	: 76 °C (@ 22 mm Hg)	
Flash point	: 68 °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	: 1.03 g/ml (@ 20 °C)	
Molecular mass	: 139.17 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	: 1.501 (@ 20 °C)	
SECTION 10: Stability and reactivity	ty	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and s	storage conditions.	
10.3. Possibility of hazardous reactions	5	

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.

SECTI	ON 11: Toxicological informati	on
11.1.	Information on toxicological effects	
Acute to	xicity	: Not classified
Skin cor	rosion/irritation	: Causes severe skin burns and eye damage.

Skin corrosion/irritation	: Causes severe skin burns and eye
Serious eye damage/irritation	: Causes serious eye damage.
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.

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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.

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

No additional information available

SECTION 13: Disposal consideration	ons
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

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN2735 Amines, liquid, corrosive, n.o.s., 8, III
- : UN2735
- : Amines, liquid, corrosive, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name
- : 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).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

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DOT Quantity Limitations Cargo aircraft only (49) : 60 L CFR 175.75) DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. DOT Vessel Stowage Other : 52 - Stow "separated from" acids DOT duantity Limitation available : No supplementary information available. TDG : No supplementary information available. Transport by sea : 2735 Proper Shipping Name (IMDG) : 2735 Packing group (IMDG) : 8 - Corrosive substances Packing group (IMDG) : III - substances presenting low danger Air transport : 2735 Proper Shipping Name (IATA) : 2735 State and the substances are substances : Packing group (IMDG) : III - substances presenting low danger Air transport : : UN-No. (IATA) : 2735 Proper Shipping Name (IATA) : 2735 Proper Shipping Name (IATA) : 2735 Proper Shipping Name (IATA) : 2735 Proper	o o , ,	
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passenger vessel.	DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Other information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) : 2735 Proper Shipping Name (IMDG) : AMINES, LIQUID, CORROSIVE, N.O.S. Class (IMDG) : 8 - Corrosive substances Packing group (IMDG) : 1II - substances presenting low danger Air transport	DOT Vessel Stowage Location	
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UN-No. (IATA): 2735Proper Shipping Name (IATA): Amines, liquid, corrosive, n.o.s.Class (IATA): 8 - Corrosives	Packing group (IMDG)	: III - substances presenting low danger
Proper Shipping Name (IATA): Amines, liquid, corrosive, n.o.s.Class (IATA): 8 - Corrosives	Air transport	
Class (IATA) : 8 - Corrosives	UN-No. (IATA)	: 2735
	Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s.
	Class (IATA)	: 8 - Corrosives
Packing group (IATA) : III - Minor Danger	Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	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.		
(R)-1-(4-Fluorophenyl)ethylamine	CAS No 374898-01-8	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 Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
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	: 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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
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.