

Safety Data Sheet 46563Y4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/20/2018 Version: 1.0

SECTION 1. Identification			
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1.1. Identification			
Product form	: Substance		
Substance name	: 2-(1,1,2,2-Tetrafluoroethoxy	anline	
CAS No	: 35295-34-2		
Product code	: 4656-3-Y4		
Formula	: C8H7F4NO		
Synonyms	: 2-Amino-alpha,alpha,beta,b	eta-tetrafluorophenetole	
Other means of identification	: MFCD03094306		
1.2. Relevant identified uses of the su	bstance or mixture and uses adv	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and deve	lopment	
1.3. Details of the supplier of the safe	ty 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	(244) 500 4000 (05 0	A	
Emergency number	: (844) 523-4086 (3E Compar	iy - Account 10069)	
SECTION 2: Hazard(s) identification	n		
2.1. Classification of the substance of			
Classification (GHS-US)			
Resp. Sens. 1 H334 - May caus	n contact with skin inhaled	reathing difficulties if inhaled	
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS07 GHS08	>	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H302+H312+H332 - Harmfu H315 - Causes skin irritatior H319 - Causes serious eye	rritation asthma symptoms or breathing difficulties if inl	naled
Precautionary statements (GHS-US)	P271 - Use only outdoors or P280 - Wear protective glov P284 - In case of inadequat P301+P312 - If swallowed: (P302+P352 - If on skin: Wat P304+P340 - If inhaled: Rer P305+P351+P338 - If in eye	y after handling moke when using this product in a well-ventilated area es/protective clothing/eye protection/face protect e ventilation wear respiratory protection Call a POISON CENTER or doctor/ physician if sh with plenty of soap and water nove person to fresh air and keep comfortable f s: Rinse cautiously with water for several minut	you feel unwell for breathing tes. Remove contact
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	lenses, if present and easy to do. Co P312 - Call a POISON CENTER or P321 - Specific treatment (see supp P330 - Rinse mouth P332+P313 - If skin irritation occurs P337+P313 - If eye irritation persist P342+P311 - If experiencing respira P362+P364 - Take off contaminated P403+P233 - Store in a well-ventilat P405 - Store locked up P501 - Dispose of contents/contained	doctor/physician if you plemental first aid instru c Get medical advice/at s: Get medical advice/a atory symptoms: Call a d clothing and wash it b ted place. Keep contair	ctions on this label) itention attention poison center/doctor/ efore reuse her tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	JS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-(1,1,2,2-Tetrafluoroethoxy)aniline (Main constituent)	(CAS No) 35295-34-2	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 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 measure			
First-aid measures general	: In case of accident or if you feel unv where possible). Move the affected		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact	: Wash with plenty of soap and water medical advice/attention.	. Remove contaminate	d clothing and shoes. Get immediate
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 giv mouth out with water. Get immediat		
	effects, both acute and delayed		
Symptoms/injuries	: The most important known sympton 2.2) and/or in section 11.		
Symptoms/injuries after inhalation	: Material is destructive to tissue of th shortness of breath, headache, nau		s and upper respiratory tract. Cough,
	edical attention and special treatment need	ded	
Treat symptomatically.			
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	ide. Dry powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising from th	ne substance or mixture		
Fire hazard	: Thermal decomposition generates:		_
Explosion hazard	: Risk of explosion if heated under co containers.	nfinement. Use water s	spray or fog for cooling exposed
5.3. Advice for firefighters			
5.3. Advice for firefighters Firefighting instructions	: In case of fire: Evacuate area. Fight	fire remotely due to the	e risk of explosion.

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Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, 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.
6.2. Environmental precautions	
Avoid release to the environment. Notify author	rities if product enters sewers or public waters.
6.3. Methods and material for containm	nent 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	
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.
	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or
Hygiene measures	smoke when using this product. Always wash hands after handling the product.
	smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, incluc Technical measures	smoke when using this product. Always wash hands after handling the product.
	 smoke when using this product. Always wash hands after handling the product. ding any incompatibilities Comply with applicable regulations. Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas. Air

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	Inconerties

SECTION 9: Physical and	chemical properties		
9.1. Information on basic p	hysical and chemical properties		
Physical state	: Liquid		
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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	: 92 °C (@ 12 mm Hg)
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
Specific gravity / density	: 1.7 g/ml
Molecular mass	: 209.1409 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
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. 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

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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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.

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

No additional information available

SECTION 13: Disposal consideration	IS
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) : UN2810 Toxic, liquids, organic, n.o.s., 6.1, III

- : UN2810
- : Toxic, liquids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132

: 6.1 - Poison



- Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols
- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

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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). T7 - 4 178.274(d)(2) Normal		
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153		
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.		
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"		
Other information	No supplementary information available.		
TDG No additional information available			
Transport by sea			
UN-No. (IMDG)	: 2810		
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.		
Class (IMDG)	: 6.1 - Toxic substances		
Packing group (IMDG)	: III - substances presenting low danger		
Air transport UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)	 2810 Toxic liquid, organic, n.o.s. 6.1 - Toxic Substances 		
Packing group (IATA)	: III - Minor Danger		
SECTION 15: Pogulatory 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 (ISCA) inventory except for:		
2-(1,1,2,2-Tetrafluoroethoxy)aniline	CAS No 35295-34-2	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

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SECTION 16: Other information

Full text of H-	phrases:
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	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4	
	Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation) Category 4	
	Acute Tox. 4 (Oral) Eye Irrit. 2A		Acute toxicity (oral) Category 4	
			Serious eye damage/eye irritation Category 2A	
	Resp. Sens. 1		Respiratory sensitisation Category 1	
	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	
	H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled	
	H335		May cause respiratory irritation	
	nealth hazard	given.	n prompt medical attention was	
NFPA f	NFPA fire hazard : 1 - Must be preheated b		pre ignition can occur.	
		: 0 - Normally stable, even u and are not reactive with w	Inder fire exposure conditions,	
HMIS I	II Rating			
Health	 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treating iven * - Chronic (long-term) health effects may result from repeated overexposure 			
	1.00	,		
Flamm	ability	: 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)		
Physica	al	: 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.