

Safety Data Sheet 26023RB according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/05/2020 Version: 1.0

SECTION 1: Identification 1.1. Identification	
Product form	L. Substance
	: Substance
Substance name	: (R)-1-Phenyl-2,2,2-trifluoroethanol
CAS No	: 10531-50-7
Product code	: 2602-3-RB
Formula	: C8H7F3O
Synonyms	: Benzenemethanol, .alpha(trifluoromethyl)-, (R)-
Other means of identification	: MFCD00077844
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 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 Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	y irritation
0.0 Lobal alamanta	
2.2. Label elements	
GHS-US labeling	: GHS07
GHS-US labeling Hazard pictograms (GHS-US)	: GHS07 Warning
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: GHS07 : Warning : H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)	: Warning : H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation

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		<u> </u>		
	P403 P403 P403	0+P378 - In case of fire: Use dry sand, d 8+P233 - Store in a well-ventilated place 8+P235 - Store in a well-ventilated place 5 - Store locked up 1 - Dispose of contents/container to an a	. Keep container . Keep cool	r tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable	0)			
SECTION 3: Composition/informa	ation on ir	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
(R)-1-Phenyl-2,2,2-trifluoroethanol		(CAS No) 10531-50-7	<= 100	Flam. Liq. 4, H227
(Main constituent)				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 measure	s			
First-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personne		,
First-aid measures after inhalation	: Rem	ove person to fresh air and keep comfor iration. Get medical advice/attention.	-	
First-aid measures after skin contact	: Was	h with plenty of soap and water. Get me	dical advice/atte	ntion.
First-aid measures after eye contact		ediately flush eyes thoroughly with water		
First-aid measures after ingestion	: Do N	ent and easy to do. Continue rinsing. Ge IOT induce vomiting. Never give anythin th out with water. Get medical advice/att	g by mouth to a	
4.2. Most important symptoms and e	effects. both	acute and delayed		
Symptoms/injuries	: The	most important known symptoms and ef and/or in section 11.	fects are describ	ped in the labelling (see section
4.0 In the other of any large distance	,			
	aicai attentio	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measure	s			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	bowder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the	e substance	or mixture		
Fire hazard		mal decomposition generates: Carbon o	xides. Hydroger	n fluoride.
Explosion hazard		of explosion if heated under confinemer ainers.	nt. Use water spi	ray or fog for cooling exposed
5.3. Advice for firefighters				
Firefighting instructions	· In ca	se of fire: Evacuate area. Fight fire remo	otely due to the i	risk of explosion
Protection during firefighting		r gas tight chemically protective clothing		•
		aratus. For further information refer to se		
SECTION 6: Accidental release m	neasures			
6.1. Personal precautions, protective	e equipment	and emergency procedures		
General measures		cuate unnecessary personnel. Ensure ac r or spray.	lequate air venti	lation. Do not breathe gas, fumes,
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped with suital	ole protective eq	uipment may intervene.
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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.
6.2.	Environmental precautions	
Avoid re	elease to the environment. Notify autho	es if product enters sewers or public waters.
6.3.	Methods and material for contain	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 ir	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No add	tional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
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.
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, inclu	g any incompatibilities
Technic	al measures	: Comply with applicable regulations.
Storage	conditions	: Keep container closed when not in use.
Incomp	atible 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.

SECT	<b>FION 9: Physical and chemic</b>	al properties
9.1.	Information on basic physical a	nd chemical properties
Physica	al state	: Liquid
Appear	rance	: Low melting solid.
Color		: No data available
<u> </u>		

Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 20 °C
Freezing point	: No data available
Boiling point	: 73 - 76 °C (@ 9 mm Hg)
Flash point	: 87 °C

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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	: 1.3 g/ml (@ 20 °C)
Molecular mass	: 176.13 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	

Refractive index

: 1.459 (@ 20 °C)

# 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

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	: Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	<ul> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> </ul>
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	<ul><li>Not classified</li><li>Not classified</li><li>May cause respiratory irritation.</li></ul>
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	: May cause respiratory irritation. : Not classified
exposure) Aspiration hazard	: Not classified

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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 addi	tional 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	: 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)	<ul> <li>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).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
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:

(R)-1-Phenyl-2,2,2-trifluoroethanol	CAS No 10531-50-7	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**

(R)-1-Phenyl-2,2,2-trifluoroethanol (10531-50-7)
Listed on the TCCL (Toiwan Chemical Substance Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

## 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 lex	a or n-phrases.	
	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 fire hazard reactivity	<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	<ul> <li>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 &amp; IIIA)</li> </ul>
Physic	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.