

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal]

TCI AMERICA SAFETY DATA SHEET

2,2,2-Trifluoroethylamine T1169

For laboratory research purposes. Not for drug or household use.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1-503-286-7624

Eye Damage/Irritation [Category 1] Flammable Liquids [Category 2] Skin Corrosion/Irritation [Category 1B]

Danger!

None.

Highly flammable liquid and vapor Causes severe skin burns and eye damage

Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC] Page 1 of 5

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance 2,2,2-Trifluoroethylamine
Percent:	>97.0%(GC)(T)
CAS RN:	753-90-2
Molecular Weight:	99.06
Chemical Formula:	C ₂ H ₄ F ₃ N

4. FIRST-AID MEASURES

Description of first aid measures						
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.					
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.					
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician.					
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.					
Symptoms/effects:						
Acute:	Pain. Redness.					
Delayed:	No data available					
Notes to physician: No data available 5. FIRE-FIGHTING MEASURES						
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide. Solid streams of water					
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume					
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides Halogenated compounds					
Other specific hazards:	WARNING: Highly toxic HF gas is produced during combustion.					
Advice for firefighters:	Wear self-contained breathing apparatus if possible.					
6. ACCIDENTAL RELEASE MEAS	URES					

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	controlled around the leakage area by roping off, etc. Prevent product from entering drains.
7. HANDLING AND STORAGE	
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
	generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a	measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including a Storage conditions: Packaging material:	measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

ta available pH	H:	No data available
	apour pressure:	No data available.
	apour density:	No data available
	ynamic Viscosity:	No data available
ta available		
		No data available
	• •	No data available
ta avallable Fla		
		No data available
	Upper:	No data available
No data available		
t	a available E A A (1°F) A	a available Evaporation rate(Butyl Acetate=1): (1°F) Autoignition temperature: a available Flammability or explosive limits: Lower: Upper:

10. STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under proper conditions.Possibility of hazardous reactions:No special reactivity has been reported.Conditions to avoid:Spark, Open flame, Static dischargeIncompatible materials:Oxidizing agentsHazardous decomposition products:Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen fluoride

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11. TOXICOLOGICAL INFORMATIO	N			
RTECS Number: KS0175000				
Acute Toxicity:				
ihl-mus LC50:4170 mg/m³/2H		ipr-mus LD:>250 uL/kg		
Skin corrosion/irritation:				
No data available				
Serious eye damage/irritation:				
No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity:				
No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability:	No data available			
Bioaccumulative potential(BCF):	No data available			
Mobility in soil	No doto ovollabia			
Log Pow: Soil adsorption (Koc):	No data available No data available			
Soil adsorption (Koc): Henry's Law (PaM ³ /mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to process	s if possible. It is the generator's resp	onsibility to	comply with Federal State and
Disposar of product.		gulations. You may be able to dissolv		
	and burn in a cher	nical incinerator equipped with an after	erburner and	scrubber system. This section is
	intended to provide assistance but does not replace these laws, nor does compliance in accordance			
		nsure regulatory compliance accordin		
		_isting of Hazardous Waste are listed r the environment, drains, water ways		
Dispessed of containers	Dianono of on unit	a the environment, drams, water ways		•

Disposal of container: Other considerations: Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance. 14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN2733	Proper Shipping Name: Amine, flammable, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group:
IATA UN number: UN2733	Proper Shipping Name: Amines, flammable, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group:
IMDG UN UN2733 numb er:	Proper Shipping Name: Amines, flammable, corrosive, n.o.s	Class or Division: 3 Flammable liquid	Subrisk(s): 8 Corrosive material	Packing Group: II
EmS number:	F-E, S-C			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardo	ous substance a	and Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulation	<u>S_</u>			
State Right-to-Kr	low			
Massachuse	tts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	a	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>n</u>			
NFPA Rating:			HMIS Classification:	
Health:	3		Health:	3
Flammability:	4		Flammability:	4
Instability:	2		Physical:	2
International Inve	entories			
Canada: NDSL		On NDSL		
EC-No:		212-041-3		

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.