

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:

Danger!

None.

May be corrosive to metals Causes severe skin burns and eye damage

Eye Damage/Irritation [Category 1]

Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1B]

Pictogram(s) or Symbol(s):

Hazard Statement(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] 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. Absorb spillage to prevent material damage. Store in corrosive resistant bottle or metal container with a resistant inner liner. 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.).

Keep only in original container. Do not breathe dusts or mists. Wash hands and face thoroughly after

handling. Wear protective gloves, protective clothing, face protection.

Hazards not otherwise classified: [HNOC] Undecafluorohexanoic Acid U0067

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SAFETY DATA SHEET

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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Undecafluorohexanoic Acid
Percent:	>98.0%(GC)(T)
CAS RN:	307-24-4
Molecular Weight:	314.05
Chemical Formula:	C6HF11O2
Synonyms:	Perfluorohexanoic Acid
Synonyms:	Perfluoronexanoic Acid

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
Indication of any immediate medical Not available.	attention:
Notes to physician:	

No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
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: Other specific hazards:	These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HF gas is produced during combustion.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	
Environmental precautions: Methods and materials for containment and cleaning up:	etc. Prevent product from entering drains. Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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. 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. Use corrosive resistant equipment.
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
-	Store under inert gas. Protect from moisture. Store locked up.
	Store away from incompatible materials such as oxidizing agents.
	Hygroscopic
Packaging material:	Comply with laws. Keep only in original container.

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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

Physical state (20°C):	Liquid		
Form:	Clear		
Colour:	Colorless - Very pale yellow	1	
Odour:	Pungent		
Odor threshold:	No data available		
Odour threshold:	No data available		
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	157°C (315°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	1.76	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point:	No data available	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	No data available
		Upper:	No data available
Solubility(ies):		••	
[Water]	Insoluble		
[Other solvents]	No data available		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Bases Carbon dioxide, Carbon monoxide, Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available				
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): Mobility in soil	No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Pocycle to proces	s if possible. It is the generat	or's responsibility to	comply with Federal, State and
Disposal of product:	Local rules and re and burn in a cher intended to provid with this section er Identification and I	gulations. You may be able t nical incinerator equipped wi e assistance but does not rep nsure regulatory compliance	o dissolve or mix ma th an afterburner and blace these laws, nor according to the law are listed in 40 CFR F	terial with a combustible solvent I scrubber system. This section is does compliance in accordance US EPA guidelines for Parts 261. The product should not

Disposal of container: Other considerations: be allowed to enter the environment, drains, water ways, or the soil. 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: UN3265	Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
IATA UN number: UN3265	Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
IMDG UN UN3265 numb er:	Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
EmS number:	F-A, S-B		

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 and Rep	oortable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations			
State Right-to-Kn			
Massachuset		Not Listed	
	its		
New Jersey		Not Listed	
Pennsylvania	1	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	,		
	<u> </u>		HMIS Classification:
NFPA Rating:	0		
Health:	3		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
International Inve Canada: NDSI	entories_		
Canada: NDSL	entories_	On NDSL 206-196-6	
	entories_	On NDSL 206-196-6	

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.

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