CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revis	sion number: 1	Revision date:	10/02/2018
SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking		
1.1 Product identifiers			
Product name:	Difluoromethyl 2,2,3,3-Tetrafluoropropyl Ether		
Product code:	D4472		
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advised against Reagents.		
1.3 Details of the supplier of the safety of Supplier:	data sheet		
TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.	com		
1.4 Emergency telephone number:	+32(0)70 245 245		
SECTION 2: Hazards identification			
2.1 Classification of the substance or m	ixture		
Flammable liquids	Category 2		
Pictograms or hazard symbols			
Signal word	Danger		
Hazard statements Precautionary statements	 H225-Highly flammable liquid and vapour. P210-Keep away from heat/sparks/open flames/hot surfaces No smokir P233-Keep container tightly closed. P240-Ground/bond container and receiving equipment. P280-Wear protective gloves, eye protection. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contami with water or shower. P403+P235-Store in a well-ventilated place. Keep cool. 	-	nse skin
2.3 Other hazards			
Results of PBT and vPvB assessmen	t		
PBT:	Not applicable		
vPvB:	Not applicable		
SECTION 3: Composition/informati	on on ingredients		
3.1 Substances			
Components:	Difluoromethyl 2,2,3,3-Tetrafluoropropyl Ether		
Percent:	>98.0%(GC)		
CAS RN:	35042-99-0		
Chemical Formula:	C4H4F6O		

Difluoromethyl 2,2,3,3-Tetrafluoropropyl Ether

SECTION 4: First aid measures	
4.1 Description of first aid measure	S
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

^{4.2} Most important symptoms and effects, both acute and delayed No data available

4.3 Indication of any immediate medical attention and special treatment needed No data available

to the surrounding situation is used. Uninvolved persons should evacuation fire in the surroundings: Keep containers cool by spraying with water.	-extinguishing method according ate to a safe place. In case of	
substance or mixture Carbon dioxide, Carbon monoxide, Hydrogen fluoride 5.3 Advice for firefighters Fire-extinguishing work is done from the windward and the suitable fire-to the surrounding situation is used. Uninvolved persons should evacuative fire in the surroundings: Keep containers cool by spraying with water. Esafe to do so. When extinguishing fire, be sure to wear personal protection.	-extinguishing method according ate to a safe place. In case of	
to the surrounding situation is used. Uninvolved persons should evacua fire in the surroundings: Keep containers cool by spraying with water. E safe to do so. When extinguishing fire, be sure to wear personal protect	ate to a safe place. In case of	
SECTION 6: Accidental release measures	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment	
6.1 Personal precautions, protective equipment and emergency procedures Use extra personal protective equipment (self-contained breathing appa and upwind of spill/leak. Ensure adequate ventilation. Entry to non-invo controlled around the leakage area by roping off, etc	aratus). Keep people away from lived personnel should be	
6.2 Environmental precautions Prevent product from entering drains		
6.3 Methods and materials for containment and cleaning up Absorb spilled material in dry sand or inert absorbent before recovering case of large amount of spillage, contain a spill by bunding. Adhered or promptly disposed of, in accordance with appropriate laws and regulated ignition. Fire-extinguishing devices should be prepared in case of a fire explosion-proof equipment.	r collected material should be ons. Remove all sources of	
6.4 Reference to other sections For disposal see section 13.		
SECTION 7: Handling and storage		
7.1 Precautions for safe handling Handling is performed in a well ventilated place. Wear suitable protective generation of vapour or mist. Keep away from heat/sparks/open flame/l measures to prevent the build up of electrostatic charge. Use explosion and face thoroughly after handling. Use a closed system if possible. Use vapour or aerosol will be generated. Avoid contact with skin, eyes and pressure. Open carefully.	hot surfacesNo smoking. Take n-proof equipment. Wash hands se a ventilation, local exhaust if	
7.2 Conditions for safe storage, including any incompatibilitiesKeep container tightly closed. Store in a cool, dark and well-ventilated p incompatible materials such as oxidizing agents.	place. Store away from	
7.3 Specific end use(s) No further relevant information available.		
SECTION 8: Exposure controls/personal protection		
8.1 Control parameters No data available		
8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and	eye bath.	
Respiratory protection:Vapor respirator. Follow local and national regulations.Hand protection:Protective gloves.Eye protection:Safety glasses. A face-shield, if the situation requires.Skin and body protection:Protective clothing. Protective boots, if the situation requires.		
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SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical prop

Section 7.1 Hysical and chemical	properties
9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Almost colorless
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	76°C
Flash point:	No data available
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	1.48
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient:	No data available
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	972mPa·s (23°C)
Kinematic viscosity:	No data available
9.2 Other safety information	No data available

9.2 Other safety information

SECTION 10: Stability and reactivity 10.1 Reactivity No data available 10.2 Chemical stability Stable under proper conditions. 10.3 Possibility of hazardous reactions No special reactivity has been reported. 10.4 Conditions to avoid Spark, Open flame, Static discharge 10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Hydrogen fluoride

SECTION 11: Toxicological information

1.1 Information on toxicological effects	
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:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

SECTION 12: Ecological informat	ion
12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	No data available
12.5 Results of PBT and vPvB assess	ment
PBT:	Not applicable
vPvB:	Not applicable
12.6 Other adverse effects	No data available
SECTION 13: Disposal considera	tions

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

SECTION 14: Transport information	tion
14.1 UN number	3271
14.2 UN proper shipping name	
ADR/RID	Ethers, n.o.s
IMDG/IMO	Ethers, n.o.s
ICAO/IATA	Ethers, n.o.s
14.3 Transport hazard class(es)	
ADR/RID	3: Flammable liquid
IMDG/IMO	3: Flammable liquid
ICAO/IATA	3: Flammable liquid
14.4 Packaging group	
ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II
14.5 Environmental hazards	
Marine pollutant	-
14.6 Special precautions for user	No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information	
Prepared by:	TCI EUROPE N.V.
Issue date:	10/02/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet