CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	evision number: 1	Revision date: 10/03/201
SECTION 1: Identification of the	substance/mixture and of the comp	any/undertaking
.1 Product identifiers		
Product name:	Methyl 2-(Trifluoromethyl)-3,3,3-trifluo	ropropionate
Product code:	M2496	
.2 Relevant identified uses of the s Identified uses:	ubstance or mixture and uses advised ag Reagents.	ainst
.3 Details of the supplier of the saf	etv data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07	00	
E-mail: sales-eu@tcichemid	als.com	
.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificat		
.1 Classification of the substance		
Flammable liquids	Categor	
Acute toxicity (Oral)	Categor	
Skin corrosion/irritation	Categor	/ 2
Serious eye damage/eye irritation. 2 Label elements Pictograms or hazard symbols	on Categor	/ 2
.2 Label elements	on Categor	/2
2 Label elements Pictograms or hazard symbols	, , , , , , , , , , , , , , , , , , ,	/2
2.2 Label elements Pictograms or hazard symbols	Danger	
2 Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liquid and vap	
2 Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liquid and vap H301-Toxic if swallowed.	
2 Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liquid and vap H301-Toxic if swallowed. H315-Causes skin irritation.	
2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Danger H225-Highly flammable liquid and vap H301-Toxic if swallowed. H315-Causes skin irritation. H319-Causes serious eye irritation.	our.
2 Label elements Pictograms or hazard symbols	Danger H225-Highly flammable liquid and vap H301-Toxic if swallowed. H315-Causes skin irritation.	our. en flames/hot surfaces No smoking.
2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Danger H225-Highly flammable liquid and vap H301-Toxic if swallowed. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/op	our. en flames/hot surfaces No smoking. n using this product.
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Methyl 2-(Trifluoromethyl)-3,3,3-trifluoro propionate

SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Methyl 2-(Trifluoromethyl)-3,3,3-trifluoropropionate
Percent:	>98.0%(GC)
CAS RN:	360-54-3
Synonyms:	2-(Trifluoromethyl)-3,3,3-trifluoropropionic Acid Methyl Ester , 2,2-Bis(trifluoromethyl)acetic Acid Methyl Ester , Methyl 2,2-Bis(trifluoromethyl)acetate
Chemical Formula:	C6H4F6O2

SECTION 4: First aid measures

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1.1	Description of first aid measures	
	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. Gently wash with plenty of soap and water. 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:	Immediately call a POISON CENTER or doctor/physician. 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

SECTION 5: Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Unsuitable extinguishing media:	Solid streams of water
5.2 Special hazards arising from the substance or mixture	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Hydrogen fluoride
5.3 Advice for firefighters	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

SECTION 6: Accidental release mea	asures		
6.1 Personal precautions, protective equipment and emergency procedures	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from		
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 it into an airtight container. 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. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.		
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 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.		
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.		
7.3 Specific end use(s)	No further relevant information available.		

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	propionate	

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:	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.		

SECTION	Q. Physical	and chemical	l nronartias
SECTON	9. PHVSICAL	and chemical	DIDDELIES

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:	88°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:	1.45		
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:	No data available		
Kinematic viscosity:	No data available		
9.2 Other safety information	No data available		

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

11.1 Information on toxicological effects	
Acute Toxicity:	orl-mus LD50:300 mg/kg
	ipr-mus LD50:17 mg/kg
	ivn-mus LD50:15 mg/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:	
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
RTECS Number:	NQ4690000

SECTION 12: Ecological information

12.1 Toxicity Fish: Crustacea: Algae:	No data available No data available 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: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available No data available	
12.5 Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable		

12.6 Other adverse effects

SECTION 13: Disposal considerations

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

No data available

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	propionate	

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<u>SECTION 14: Transport informat</u> 14.1 UN number	1992	
14.2 UN proper shipping name		
ADR/RID	Flammable liquid, toxic, n.o.s	
IMDG/IMO	Flammable liquid, toxic, n.o.s	
ICAO/IATA	Flammable liquid, toxic, n.o.s	
14.3 Transport hazard class(es)		
ADR/RID	3: Flammable liquid	
Subsidiary risk:	6.1: Toxic substance.	
IMDG/IMO	3: Flammable liquid	
Subsidiary risk:	6.1: Toxic substance.	
ICAO/IATA	3: Flammable liquid	
Subsidiary risk:	6.1: Toxic substance.	
14.4 Packaging group		
ADR/RID	II	
IMDG/IMO	ll	
ICAO/IATA	II	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	

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:	10/03/2018

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

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	2-(Trifluoromethyl)-3,3,3-trifluoro	
	propionate	