**C**I TCI EUROPE N.V.

# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	sion number: 1	
SECTION 1: Identification of the su	bstance/mixture and of	the company/undertaking
1 Product identifiers		
Product name:	Tetrahydrofuran Anhydrou	s (stabilized with BHT)
Product code:	T2394	
2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses Reagents.	advised against
.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	
4 Emergency telephone number:	+32(0)70 245 245	
ECTION 2: Hazards identification		
1 Classification of the substance or m	nixture	
Flammable liquids		Category 2
Serious eye damage/eye irritation		Category 2
Carcinogenicity		
		Category 2
2 Label elements Pictograms or hazard symbols	le exposure [Category 3]	Category 2 Respiratory tract irritation
Specific target organ toxicity - Sing 2 Label elements Pictograms or hazard symbols	le exposure [Category 3]	<b>o</b> ,
Specific target organ toxicity - Sing 2 Label elements	Danger H225-Highly flammable liq H319-Causes serious eye H351-Suspected of causin	Respiratory tract irritation uid and vapour. irritation. g cancer.
Specific target organ toxicity - Sing 2 Label elements Pictograms or hazard symbols Signal word	Danger H225-Highly flammable liq H319-Causes serious eye H351-Suspected of causin H335-May cause respirato P261-Avoid breathing mist P280-Wear protective glov P303+P361+P353-IF ON S with water or shower.	Respiratory tract irritation uid and vapour. irritation. g cancer. ry irritation. , vapours or spray. es, protective clothing, face protection. SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
Specific target organ toxicity - Sing 2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Danger H225-Highly flammable liq H319-Causes serious eye H351-Suspected of causin H335-May cause respirato P261-Avoid breathing mist P280-Wear protective glov P303+P361+P353-IF ON S with water or shower. P304+P340+P312-IF INH/ POISON CENTER or docto P305+P351+P338+P337+ contact lenses, if present a or attention.	Respiratory tract irritation uid and vapour. irritation. g cancer. ry irritation. , vapours or spray. es, protective clothing, face protection. SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin ALED: Remove person to fresh air and keep comfortable for breathing. Ca or if you feel unwell. P313-IF IN EYES: Rinse cautiously with water for several minutes. Remoind easy to do. Continue rinsing. If eye irritation persists: Get medical advi
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Specific target organ toxicity - Sing 2 Label elements Pictograms or hazard symbols Signal word Hazard statements Precautionary statements Supplemental hazard information 3 Other hazards	Danger H225-Highly flammable liq H319-Causes serious eye H351-Suspected of causin H335-May cause respirato P261-Avoid breathing mist P280-Wear protective glov P303+P361+P353-IF ON S with water or shower. P304+P340+P312-IF INHA POISON CENTER or doctr P305+P351+P338+P337+ contact lenses, if present a or attention. P308+P313-IF exposed or EUH019: May form explosi May form explosive peroxid	Respiratory tract irritation uid and vapour. irritation. g cancer. ry irritation. , vapours or spray. es, protective clothing, face protection. SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin ALED: Remove person to fresh air and keep comfortable for breathing. Ca or if you feel unwell. P313-IF IN EYES: Rinse cautiously with water for several minutes. Remo ind easy to do. Continue rinsing. If eye irritation persists: Get medical advi concerned: Get medical advice or attention. ive peroxides.

### SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Tetrahydrofuran Anhydrous (stabilized with BHT)
Percent:	>99.5%(GC)
CAS RN:	109-99-9
EC-No:	203-726-8
Synonyms:	THF Anhydrous (stabilized with BHT)
Chemical Formula:	C4H8O

# SECTION 4: First aid measures 4.1 Description of first aid measures Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. 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. Call a POISON CENTER or doctor/physician. Ingestion: Call a POISON CENTER or doctor/physician. 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 in large amounts, carbon dioxide.
5.2 Special hazards arising from the substance or mixture	Carbon dioxide, Carbon monoxide
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 and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc
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. Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.
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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SECTION 8: Exposure controls	s/personal protection
8.1 Control parameters	
ACGIH TLV(TWA):	50 ppm (skin)
ACGIH TLV(STEL):	100 ppm (skin)
OSHA PEL(TWA):	200 ppm
JSOH OELs(TWA):	50 ppm (skin)
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 9: Physical and chemical properties

9.1 Information on basic physical and cl	pemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless
Odour:	Characteristic
pH:	No data available
Melting point/freezing point:	-108°C
Boiling point/range:	65°C
Flash point:	-15°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	2%
Upper:	11.8%
Vapour pressure:	19.3kPa/20°C
Vapour density:	2.5
Relative density:	0.89
Solubility(ies):	
[Water]	Miscible
[Other solvents]	
Miscible:	Alcohols
Partition coefficient:	0.46
n-octanol/water:	20440
Autoignition temperature:	321°C
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	May form explosive peroxides.
10.3 Possibility of hazardous reactions	No special reactivity has been reported.

10.5 Incompatible materials	Oxidizing agents, Strong bases, Metal halides
10.6 Hazardous decomposition product	<b>s</b> Carbon dioxide, Carbon monoxide

10.4 Conditions to avoid

Spark, Open flame, Static discharge, Air

# SECTION 11: Toxicological information

11.1 Information on toxicological effects	S
Acute Toxicity:	orl-rat LD50:1650 mg/kg
	ihl-rat LC50:21000 ppm/3H
	ipr-rat LD50:2900 mg/kg
	ihl-hmn TCLo:25000 ppm
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	mmo-esc 1 umol/L (-S9)
Carcinogenicity:	ihl-mus TCLo:1800 ppm/6H/2Y-I
	ihl-rat TCLo:1800 ppm/6H/2Y-I
IARC =	Group 2B (Possibly carcinogenic to humans)
NTP =	No data available
Reproductive toxicity:	ihl-rat TCLo:5000 ppm/6H (6-19D preg)
	ihl-mus TCLo:1800 ppm/6H (6-17D preg)
	orl-rat TDLo:3500 mg/kg (6-19D preg)
	orl-rat TDLo:1.125 mg/kg (multigeneration)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	LU5950000

tion
96h LC50:2160 mg/L (Pimephales promelas)
24h EC50:5930 mg/L (Daphnia magna)
No data available
100 % (by BOD) , 100 % (by GC) , 92.6 % (by TOC)
3
0.46
18 - 23
7.14
ment
Not applicable
Not applicable
No data available

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

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SECTION 14: Transport information	on	
14.1 UN number	2056	
14.2 UN proper shipping name		
ADR/RID	Tetrahydrofuran	
IMDG/IMO	Tetrahydrofuran	
ICAO/IATA	Tetrahydrofuran	
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 informat	ion	
15.1 Safety, health and environmental	regulations/legislation spec	
Water Hazard Classes (WGK) :		Class 1 - Low hazard to waters
Substance of Very High Concern ( REACH Regulations (EC) No.1907		Not listed
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:	08/02/2022	

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 shorage. 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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