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

## SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 2		Revision date: 01/08/201
ECTION 1: Identification of the	e substance/mixture an	d of the company/undertaking	
1 Product identifiers	Trimethulemine (e.e. O		
Product name:	<b>P</b> (	5% in Ethanol, ca. 3mol/L)	
Product code:	T2892		
2 Relevant identified uses of the s Identified uses:	ubstance or mixture and u Reagents.	uses advised against	
3 Details of the supplier of the saf	ety data sheet		
TCI EUROPE N.V. Boerenveldseweg 6			
Haven 1063			
B-2070 Zwijndrecht			
Telephone: +32(0)3 735 07	00		
E-mail: sales-eu@tcichemi			
4 Emergency telephone number:	+32(0)70 245 245		
ECTION 2: Hazards identificat	ion		
1 Classification of the substance	or mixture	Cotogon / 2	
Flammable liquids		Category 2	
Skin corrosion/irritation	-n	Category 1B	
Serious eye damage/eye irritatio	on	Category 1	
Germ cell mutagenicity		Category 1B	
Reproductive toxicity Specific target organ toxicity - S	Single everence [Cetegen	Category 1A 3] Respiratory tract irritation, Narcotic effect	
Specific target organ toxicity - I	Repeated exposure [Categ Repeated exposure [Categ	ory 1] Liver ory 2] Respiratory system, Gall bladder	
Specific target organ toxicity - I 2 Label elements			
Specific target organ toxicity - I 2 Label elements Pictograms or hazard symbols	Repeated exposure [Categ		
Specific target organ toxicity - I 2 Label elements Pictograms or hazard symbols Signal word	Repeated exposure [Categ	ory 2] Respiratory system, Gall bladder	
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2.3 Other hazards

# PBT: Not applicable vPvB: Not applicable

Mixtures	
Components:	Trimethylamine (ca. 25% in Ethanol, ca. 3mol/L)
Percent:	
CAS RN:	75-50-3
EC-No:	200-875-0
Chemical Formula:	C3H9N
Hazardous composition:	<ul> <li>Chemical name: Ethanol Conc.: ca. 75%</li> <li>CAS RN:64-17-5 EC No.: 200-578-6</li> <li>Flam. Liq. 2, Eye Irrit. 2</li> <li>H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation.</li> <li>Chemical name: Trimethylamine Conc.: ca. 25%</li> <li>CAS RN:75-50-3 EC No.: 200-875-0</li> <li>Press. Gas, Flam. Gas 1, Skin Irrit. 2, Eye Dam. 1, Acute Tox. 4, STOT SE 3</li> <li>H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated. H315</li> <li>Causes skin irritation. H318: Causes serious eye damage. H332: Harmful if inhaled. H335: May cau respiratory irritation.</li> </ul>

### 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. 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.
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 E. Firstighting massures	
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	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)
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 measures	
SECTION 6: Accidental release mea	asures
SECTION 6: Accidental release mea 6.1 Personal precautions, protective equipment and emergency procedures	asures 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
6.1 Personal precautions, protective	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

### 6.4 Reference to other sections

T2892	Trimethylamine (ca. 25% in	Page 2 of 5
	Ethanol, ca. 3mol/L)	

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 all contact! May develop pressure. Open carefully.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in an explosion-poof refregerator. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Moisture-sensitive, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/per	sonal protection
8.1 Control parameters	No data available (Ethanol) ACGIH TLV(STEL):1000 ppm OSHA PEL(TWA):1000 ppm
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: Skin and body protection:	Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.

Information on basic physical and cl	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
	(Ethanol) -117°C
Boiling point/range:	No data available
	(Ethanol) 79°C
Flash point:	No data available
	(Ethanol) 13°C
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:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient:	No data available (Ethanol) -0.32
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
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 sweld	Crark Oren flame. Ctatic discharge	
10.4 Conditions to avoid	Spark, Open flame, Static discharge	
10.5 Incompatible materials	Oxidizing agents, Acids, Copper, Aluminium, Zinc	
10.5 Incompatible materials	Oxidizing agents, Acids, Copper, Administri, Zine	
10.6 Hazardous decomposition products	s Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)	
To trazardous decomposition products carbon dioxide, carbon monoxide, Nillogen oxides (NOX)		

I Information on toxicological effect	s
Acute Toxicity:	No data available
	(Ethanol)
	orl-hmn LDLo:1400 mg/kg
	orl-rat LD50:7060 mg/kg
	skn-rbt LDLo:20 g/kg
	ihl-rat LC50:20000 ppm/10H
Skin corrosion/irritation:	No data available
	(Ethanol)
	skn-rbt 400 mg open MLD
Serious eye damage/irritation:	No data available
	(Ethanol)
	eye-rbt 500 mg/24H MLD
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
	(Ethanol)
	cyt-hmn-fbr 12000 ppm
	mmo-sat 11 pph (+S9)
	mmo-esc 140 g/L (-S9)
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
	(Ethanol)
	orl-mus TDLo:320 mg/kg/50W-l
	rec-mus TDLo:120 g/kg/18W-I
	IARC = 1
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 information

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12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
C C	
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	No data available
12.4 Mability in sail	
12.4 Mobility in soil	No. Jacobia Statistica
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM <sup>3</sup> /mol):	No data available
12.5 Results of PBT and vPvB assessme	
PBT:	Not applicable
vPvB:	Not applicable
	<b>N</b> 1 <i>C</i> 11 1
12.6 Other adverse effects	No data available

T2892	Trimethylamine (ca. 25% in	Page 4 of 5
	Ethanol, ca. 3mol/L)	

### 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

14.1 UN number	2924		
4.2 UN proper shipping name			
ADR/RID	Flammable liquid, corrosive, n.o.s		
IMDG/IMO	Flammable liquid, corrosive, n.o.s		
ICAO/IATA	Flammable liquid, corrosive, n.o.s		
4.3 Transport hazard class(es)			
ADR/RID	3: Flammable liquid		
Subsidiary risk:	8: Corrosive.		
IMDG/IMO	3: Flammable liquid		
Subsidiary risk:	8: Corrosive.		
ICAO/IATA	3: Flammable liquid		
Subsidiary risk:	8: Corrosive.		
4.4 Packaging group			
ADR/RID	ll		
IMDG/IMO	ll		
ICAO/IATA	II		
4.5 Environmental hazards			
Marine pollutant	-		
4.6 Special precautions for user	No data available		
SECTION 15: Regulatory informa	tion		
	I regulations/legislation specific for the substance or mixture Class 1 - Low hazard to waters		
Substance of Very High Concern REACH Regulations (EC) No.190			
5.2 Chemical safety assessment	A chemical safety assessment has	not been carried out.	

SECTION 16: Other Information	
Prepared by:	TCI EUROPE N.V.
Issue date:	01/08/2019

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