SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	vision number: 1	Revision date: 10/24/2019
SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking	1
.1 Product identifiers		
Product name:	1-Methylpiperidine	
Product code:	M0403	
.2 Relevant identified uses of the sub Identified uses:	ostance or mixture and uses advised against Reagents.	
.3 Details of the supplier of the safety	u 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@tcichemical		
.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification	n	
1 Classification of the substance or		
Flammable liquids	Category 2	
Skin corrosion/irritation	Category 1B	
Serious eye damage/eye irritation	0,1	
Long-term aquatic hazard	Category 3	
2.2 Label elements	Calegory 3	
2.2 Label elements Pictograms or hazard symbols	Calegory 3	
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	1-Methylpiperidine
Percent:	>99.0%(GC)(T)
CAS RN:	626-67-5
EC-No:	210-959-9
Chemical Formula:	C ₆ H ₁₃ N

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 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 me		
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.	
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.	

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 9: Physical and chemical properties

9.1 Information on basic physical and cl	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Slightly pale yellow
Odour:	Characteristic
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	107°C
Flash point:	3℃
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	0.5%
Upper:	11.5%
Vapour pressure:	2.6kPa/25°C
Vapour density:	No data available
Relative density:	0.82
Solubility(ies):	
[Water]	Miscible
[Other solvents]	
Soluble:	Ether, Alcohols
Partition coefficient:	1.3
n-octanol/water:	
Autoignition temperature:	205°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

 SECTION TO: 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, Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effect	ts
Acute Toxicity:	ipr-mus LD50:400 mg/kg
	scu-rbt LDLo:400 mg/kg
	orl-rat LDLo:25 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:	TN1225000

SECTION 12: Ecological information

12.1 Toxicity Fish: Crustacea: Algae:	48h LC50:29.8 ppm (Oryzias latipes) No data available No data available
12.2 Persistence and degradability	1% (by BOD) , 1% (by TOC) , 2% (by GC)
12.3 Bioaccumulative potential	0.5 - 1.2 (conc. 1 ppm) , 2.6 - 6.3 (conc. 0.1 ppm)
12.4 Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM³/mol):	1.3 No data available 3.5
12.5 Results of PBT and vPvB assessment PBT: Not applicable vPvB: Not applicable	
12.6 Other adverse effects	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

SECTION 14: Transport informat. 4.1 UN number		
I UN NUMBER	2399	
4.2 UN proper shipping name		
ADR/RID	1-Methylpiperidine	
IMDG/IMO	1-Methylpiperidine	
ICAO/IATA	1-Methylpiperidine	
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	11	
IMDG/IMO	11	
ICAO/IATA	II	
4.5 Environmental hazards		
Marine pollutant	-	
4.6 Special precautions for user	No data available	
SECTION 15: Regulatory informa	tion	
5.1 Safety, health and environmenta Water Hazard Classes (WGK) :	I regulations/legislation spe	cific for the substance or mixture Class 2 - Hazard to waters
Substance of Very High Concern	(SV/HC) according to the	Not listed
REACH Regulations (EC) No.190		Not listed
5.2 Chemical safety assessment		A chemical safety assessment has not been carried out.
SECTION 16: Other information		
Prepared by:	TCI EUROPE N.V.	
ssue date:	10/24/2019	

This SDS was prepared sincerely on the basis of the momation we could obtained, nowever, any warrarty sharn to 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