TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 1 Revision date: 10/03/20
SECTION 1: Identification of the	e substance/mixture and of the company/undertaking
.1 Product identifiers	
Product name:	2-Methylcyclohexanone
Product code:	M0197
.2 Relevant identified uses of the s Identified uses:	substance or mixture and uses advised against Reagents.
.3 Details of the supplier of the saf Supplier:	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@tcichemic	cals.com
.4 Emergency telephone number:	+32(0)70 245 245
ECTION 2: Hazards identificat	ion
.1 Classification of the substance of	
Flammable liquids	Category 3 Category 4
Acute toxicity (Inhalation)	Category 4
2.2 Label elements Pictograms or hazard symbols	
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Pictograms or hazard symbols	Warning
Pictograms or hazard symbols	H226-Flammable liquid and vapour.
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SECTION 4: First aid measures	
4.1 Description of first aid measure	95
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician 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:	Call a POISON CENTER or doctor/physician 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.

**<sup>4.2</sup> 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: Unsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)		
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.		
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	
ACGIH TLV(TWA):	50 ppm
ACGIH TLV(STEL):	75 ppm (skin)
OSHA PEL(TWA):	100 ppm (skin)
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.

0.4 Information on basis abusisal and ak	o mil	aal mram	~ "
SECTION 9: Physical and chemical	prop	oerties	

9.1 Information on basic physical and cl	hemical 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:	165°C
Flash point:	48°C
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	1.2%
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	3.86
Relative density:	0.93
Solubility(ies):	
[Water]	Insoluble
[Other solvents]	
Soluble:	Ether, Alcohols
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 reactivit	y

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	ns No special reactivity has been reported.	
10.4 Conditions to avoid Spark, Open flame, Static discharge		
10.5 Incompatible materials	Oxidizing agents, Strong bases, Reducing agents	

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

## SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	orl-rat LD50:2140 uL/kg
	skn-rbt LD50:1770 uL/kg
	ihl-rat LCLo:2800 ppm/4H
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:	GW1750000

## SECTION 12: Ecological information

12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
40.0 Development of the second debility	Nie de Generalie III.
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
42.5 Describes of DDT and uDuD assessme	1
12.5 Results of PBT and vPvB assessme PBT:	Not applicable
vPvB:	Not applicable
VEVD.	NUL APPICADIE

#### 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. Observe all federal, state and local regulations when disposing of the substance.

I4.1 UN number	2297	
4.2 UN proper shipping name		
ADR/RID	Methylcyclohexanone	
IMDG/IMO	Methylcyclohexanone	
ICAO/IATA	Methylcyclohexanone	
4.3 Transport hazard class(es)		
ADR/RID	3: Flammable liquid	
IMDG/IMO	3: Flammable liquid	
ICAO/IATA	3: Flammable liquid	
4.4 Packaging group		
ADR/RID	III	
IMDG/IMO	III	
ICAO/IATA	III	
4.5 Environmental hazards		
Marine pollutant	-	
4.6 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			
Water Hazard Classes (WGK) :	Class 1 - Low hazard to waters		
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Not listed		
15.2 Chemical safety assessment	A chemical safety assessment has not been carried out.		
SECTION 16: Other information			

SECTION 16: Other infor	mation	
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 sharege. 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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