SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	Revision number: 1 Revision date: 10/03/2
SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1 Product identifiers	
Product name:	2-Hexanone H0114
Product code:	H0114
1.2 Relevant identified uses of the Identified uses:	substance or mixture and uses advised against Reagents.
1.3 Details of the supplier of the sa Supplier: TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht Telephone: +32(0)3 735 0 E-mail: sales-eu@tcichem	17 00
1.4 Emergency telephone number	+32(0)70 245 245
SECTION 2: Hazards identifica	tion
2.1 Classification of the substance	
Flammable liquids	Category 3
Reproductive toxicity	Category 2
Specific target organ toxicity	Single exposure [Category 3] Narcotic effects
Specific target organ toxicity	
Specific target organ toxicity	Single exposure [Category 3] Narcotic effects Repeated exposure [Category 1] Organs
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SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	2-Hexanone
Percent:	>98.0%(GC)
CAS RN:	591-78-6
EC-No:	209-731-1
Synonyms:	Butyl Methyl Ketone
Chemical Formula:	C6H12O

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 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: Get medical advice/attention 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.

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, carbon dioxide.
Unsuitable extinguishing media:	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):	5 ppm (skin)	
ACGIH TLV(STEL):	10 ppm (skin)	
OSHA PEL(TWA):	100 ppm	
JSOH OELs(TWA):	5 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 chemical properties		
Physical state (20°C):	Liquid	
Form:	Clear	
Colour:	Colorless - Very pale yellow	
Odour:	Characteristic	
Odour threshold:	0.076 ppm	
pH:	No data available	
Melting point/freezing point:	-57°C	
Boiling point/range:	127°C	
Flash point:	23°C	
Evaporation rate(Butyl Acetate=1):	No data available	
Flammability(solid, gas):	No data available	
Flammability or explosive limits:		
Lower:	1.2%	
Upper:	8%	
Vapour pressure:	0.36kPa/20°C	
Vapour density:	3.5	
Relative density:	0.81	
Solubility(ies):		
[Water]	Slightly soluble (1.4g/100mL, 20°C)	
[Other solvents]		
Soluble:	Ether, Alcohols, Acetone	
Partition coefficient:	1.38	
n-octanol/water:		
Autoignition temperature:	423°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	

10.1 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, Strong bases, Reducing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological information 11.1 Information on toxicological effects

1.1 Information on toxicological effects	
Acute Toxicity:	ihl-rat LC50:8000 ppm/4H
	orl-hmn LDLo:714.3 mg/kg
	orl-rat LD50:2590 mg/kg
	skn-rbt LD50:4800 mg/kg
Skin corrosion/irritation:	skn-rbt 500 mg/24H MLD
Serious eye damage/irritation:	eye-rbt 500 mg/24H MLD
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	sln-smc 48 mmol/L
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	ihl-rat TCLo:1000 ppm/6H (1-21D preg)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	MP1400000

SECTION 12: Ecological informat	ion	
12.1 Toxicity		
Fish:	No data available	
Crustacea:	No data available	
Algae:	No data available	
12.2 Persistence and degradability	No data available	
12.3 Bioaccumulative potential	7	
12.4 Mobility in soil		
Log Pow:	1.38	
Soil adsorption (Koc):	134	
Henry's Law (PaM ³ /mol):	9.4	
12.5 Results of PBT and vPvB assess	nent	
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. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information	ion	
14.1 UN number	1224	
14.2 UN proper shipping name		
ADR/RID	Ketones, liquid, n.o.s	
IMDG/IMO	Ketones, liquid, n.o.s	
ICAO/IATA	Ketones, liquid, n.o.s	
14.3 Transport hazard class(es)		
ADR/RID	3: Flammable liquid	
IMDG/IMO	3: Flammable liquid	
ΙCAO/ΙΑΤΑ	3: Flammable liquid	
14.4 Packaging group		
ADR/RID	III	
IMDG/IMO	III	
ICAO/IATA	III	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory information		
15.1 Safety, health and environmenta Substance of Very High Concern REACH Regulations (EC) No.1907		

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