CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

I	Revision number: 2	Revision date: 01/29/2024
SECTION 1: Identification of th	e substance/mixture and of the company/undertaking	
1.1 Product identifiers Product name:	Chloroform (stabilized with Ethanol) [for HPLC Solvent]	
Product code:	C0819	
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	fety data sheet	
Supplier: TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07 E-mail: sales-eu@tcichemi	/ 00 cals.com	
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificat		
2.1 Classification of the substance Acute toxicity (Oral)	or mixture Category 4	
Acute toxicity (Inhalation)	Category 3	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritati		
Carcinogenicity	Category 2	
Reproductive toxicity	Category 2	
Specific target organ toxicity -		
Specific target organ toxicity -		
	Repeated exposure [Category 1] Organs	
Long-term aquatic hazard	Category 1	
2.2 Label elements Pictograms or hazard symbols		
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Signal word	Danger	
Hazard statements	H302-Harmful if swallowed. H331-Toxic if inhaled.	
	H315-Causes skin irritation.	
	H319-Causes serious eye irritation.	
	H351-Suspected of causing cancer.	
	H361d-Suspected of damaging the unborn child.	
	H370-Causes damage to organs. H372-Causes damage to organs through prolonged or repea	ated expective
	H336-May cause drowsiness or dizziness.	neu exposure.
	H410-Very toxic to aquatic life with long lasting effects.	
Precautionary statements	P260-Do not breathe mist, vapours or spray.	
	P280-Wear protective gloves, protective clothing, face protective	
	P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash w Get medical advice or attention. Take off contaminated cloth	
	P304+P340+P311-IF INHALED: Remove person to fresh air	
	POISON CENTER or doctor.	
	P305+P351+P338+P337+P313-IF IN EYES: Rinse cautious	
	contact lenses, if present and easy to do. Continue rinsing. It	reye irritation persists: Get medical advic
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or attention. P308+P311-If exposed or concerned: Call a POISON CENTER or doctor.

2.3 Other hazards	
Results of PBT and vPvB assessment	
PBT:	Not applicable
vPvB:	Not applicable

SECTION 3: Composition/inf	formation on ingradiants
3.1 Substances	ormation on ingredients
Components:	Chloroform (stabilized with Ethanol) [for HPLC Solvent]
Percent:	>99.0%(GC)
CAS RN:	67-66-3
EC-No:	200-663-8
Chemical Formula:	CHCl ₃
SECTION 4: First aid measu	res
4.1 Description of first aid measure	ures
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. 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	Development for an event of a start development of the start	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.	
5.2 Special hazards arising from the substance or mixture	Carbon monoxide, carbon dioxide etc	
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: Remove movable containers 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 personal protective equipment. 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	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned	
6.3 Methods and materials for containment and cleaning up	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). 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.	
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. 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!	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Light-sensitive, Air-sensitive	
7.3 Specific end use(s)	No further relevant information available.	
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SECTION 8: Exposure control	s/personal protection
8.1 Control parameters	
ACGIH TLV(TWA):	10 ppm
OSHA PEL(CL):	50 ppm
JSOH OELs(TWA):	3 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	
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless
Odour:	Pleasant
Odour threshold:	85 ppm
pH:	No data available
Melting point/freezing point:	-64°C
Boiling point/range:	60°C
Flash point:	No data available
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:	21.2kPa/20°C
Vapour density:	4.12
Relative density:	1.48
Solubility(ies):	
[Water]	Very slightly soluble (0.8g/100mL, 20°C)
[Other solvents]	
Miscible:	Ether, Alcohols, Benzene, Carbon tetrachloride
Soluble:	Many organic solvents
Partition coefficient:	1.97
n-octanol/water:	No. data and Table
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	V
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	No data available
10.5 Incompatible materials	Oxidizing agents, Strong bases, Metals

10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide etc

SECTION 11: Toxicological information			
11.1 Information on toxicological effects	6		
Acute Toxicity:	ihl-hmn TCLo:10 mg/m³/1Y		
	ihl-rat LC50:47702 mg/m ³ /4H		
	orl-rat LD50:695 mg/kg		
	skn-rbt LD50:>20 g/kg		
Skin corrosion/irritation:	skn-rbt 10 mg/24H open MLD		
Serious eye damage/irritation:	eye-rbt 148 mg		
Respiratory or skin sensitization:	No data available		
Germ cell mutagenicity:	dni-hmn-hla 19 mmol/L		
	mmo-sat 20 ug/plate (+/-S9)		
	mmo-ssp 5 mg/L (+S9)		
	sce-hmn-lym 10 mmol/L		
Carcinogenicity:	orl-mus TDLo:127 g/kg/92W-I		
	orl-rat TDLo:13832 mg/kg/2Y-C		
IARC =	Group 2B (Possibly carcinogenic to humans)		
NTP =	b (Reasonably anticipated to be carcinogens)		
Reproductive toxicity:	orl-mus TDLo:2115 mg/kg (3W male/3W pre-5D post)		
	ihl-rat TCLo:20100 ug/m³/1H (7-14D preg)		
	ihl-rat TCLo:300 ppm/7H (6-15D preg)		
	orl-rat TDLo:41 mg/kg (multigenerations)		
STOT-single exposure:	No data available		
STOT-repeated exposure:	No data available		
Aspiration hazard:	No data available		
RTECS Number:	FS9100000		

SECTION 12: Ecological information 12 1 Toxicity

12.1 LOXICITY	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	0% (by BOD) , 4.6% (by GC)
12.3 Bioaccumulative potential	1.4 - 4.7 (conc. 0.3 mg/L) , 4.1 - 13 (conc. 0.1 ppm)
12.4 Mobility in soil	
Log Pow:	1.97
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³ /mol):	371
12.5 Results of PBT and vPvB assess	ment
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. Observe all federal, state and local regulations when disposing of the substance.

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SECTION 14: Transport information	า	
14.1 UN number	1888	
14.2 UN proper shipping name		
ADR/RID	Chloroform	
IMDG/IMO	Chloroform	
ICAO/IATA	Chloroform	
14.3 Transport hazard class(es)		
ADR/RID	6.1: Toxic substance	
IMDG/IMO	6.1: Toxic substance	
ICAO/IATA	6.1: Toxic substance	
14.4 Packaging group		
ADR/RID	111	
IMDG/IMO	111	
ICAO/IATA	 III	
14.5 Environmental hazards		
Marine pollutant	Y	
14.6 Special precautions for user	No data available	
SECTION 15: Regulatory information	าก	
15.1 Safety, health and environmental r	egulations/legislation spec	cific for the substance or mixture
Water Hazard Classes (WGK) :	- J	Class 3 - Severe hazard to waters
Substance of Very High Concern (S		Not listed
REACH Regulations (EC) No.1907/2	2006	
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:	01/29/2024	

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 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

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