

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 00077 Issue date: 10-10-2022 Revision date: 10-10-2022 Supersedes version of: 09-04-2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

:

1.1. Product identifier

Product form
Trade name
IUPAC name
EC Index-No.
EC-No.
CAS-No.
Product code
Type of product
Formula
Chemical structure

Substance
CHLOROFORM FOR HPLC
Trichloromethane
602-006-00-4
200-663-8
67-66-3
00077
Solvents
CHCI3
CI I CI-C-CI H

Synonyms

: Methane trichloride, Methyl trichloride, Methenyl trichloride, Methenyl chloride

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

Use of the substance/mixture

Industrial
 For professional use only
 Laboratory chemicals
 Solvents
 Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (oral), Category 4	H302
Acute toxicity (inhal.), Category 3	H331
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity – Repeated exposure, Category 1	H372
Specific larger organ loxicity - Repeated exposure, Category 1	Π312

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Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H302 - Harmful if swallowed.
	H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H331 - Toxic if inhaled.
	H351 - Suspected of causing cancer.
	H361d - Suspected of damaging the unborn child.
	H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: P260 - Do not breathe dust, fume, gas, mist, spray, vapours.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances	
Substance type	: Mono-constituent
Name	: CHLOROFORM
CAS-No.	: 67-66-3
EC-No.	: 200-663-8
EC Index-No.	: 602-006-00-4

3.2. Mixtures

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.	
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact	: Causes skin irritation.	

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Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).Do not use a heavy water stream.
5.2. Special hazards arising from the sub	stance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment Emergency procedures	: Use personal protective equipment as required. : Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containmer	nt and cleaning up
Methods for cleaning up	: Clean up immediately by sweeping or vacuum.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been

Hygiene measures :	read and understood. Avoid breathing dust, fume, gas, mist, spray, vapours. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions :	Store in original container. Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: 119.38 g/mol
Colour	: Colourless.
Odour	: sweet pleasant.
Odour threshold	: 133 – 276 ppm
	648 – 1344 mg/m³
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 11.6

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Melting point	: No data available
Freezing point	: -63.5 °C
Boiling point	: 61 – 62 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 290 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: 213.3 hPa at 20°C
Relative vapour density at 20 °C	: 4.12 (Air = 1.0)
Relative density	: No data available
Density	: 1.48 g/cm³ at 20°C
Solubility	: Water: Slightly miscible
Partition coefficient n-octanol/water (Log Pow)	: 1.97
Viscosity, kinematic	: 0.392 mm²/s
Viscosity, dynamic	: 0.58 cP at 20°C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Air contact. Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Toxic if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.

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Aspiration hazard :	Not classified
CHLOROFORM FOR HPLC (67-66-3)	
Viscosity, kinematic	0.392 mm²/s
Potential adverse human health effects and : Harmful if swallowed. symptoms	

SECTION 12: Ecological information	
12.1. Toxicity	
(acute)	Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
CHLOROFORM FOR HPLC (67-66-3)	
Partition coefficient n-octanol/water (Log Pow)	1.97
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1 UN number		
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 1888 : UN 1888 : UN 1888 : UN 1888 : UN 1888	
14.2. UN proper shipping name		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	: CHLOROFORM : CHLOROFORM : Chloroform : CHLOROFORM : CHLOROFORM	

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Transport document description (ADR): UN 1888 CHLOROFORM, 6.1, III, (E)Transport document description (IMDG): UN 1888 CHLOROFORM, 6.1, IIITransport document description (IATA): UN 1888 Chloroform, 6.1, IIITransport document description (ADN): UN 1888 CHLOROFORM, 6.1, IIITransport document description (RID): UN 1888 CHLOROFORM, 6.1, III

14.3. Transport hazard class(es)

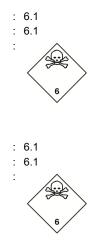
ADR

IMDG

Transport hazard class(es) (ADR) Danger labels (ADR)

Transport hazard class(es) (IMDG)

Danger labels (IMDG)



ΙΑΤΑ

Transport hazard class(es) (IATA) Danger labels (IATA)



ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

RID

Transport hazard class(es) (RID) Danger labels (RID)



: 6.1 : 6.1 :

14.4. Packing group			
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III : III		
14.5. Environmental hazards			
Dangerous for the environment Marine pollutant	: No : No		

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Other information

: No supplementary information available

14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: T1
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
	: T7
Portable tank and bulk container special provisions	: TP2
(ADR)	
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading	
and handling (ADR)	. 6713, 6726
Special provisions for carriage - Operation (ADR)	: S9 : 60
Hazard identification number (Kemler No.)	
Orange plates	⁻ 60
	1888
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
Transport by sea	
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG10
Properties and observations (IMDG)	: Colourless, volatile liquid.Boiling point: 61°C. Non-flammable. When involved in a fire,
	evolves extremely toxic fumes (phosgene). Toxic if swallowed, by skin contact or by
	inhalation. Anaesthetic.
MFAG-No	: 151
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y680
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 680
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 680
CAO max net quantity (IATA)	: 220L
ERG code (IATA)	: 6A
Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
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Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	:	PP, EP, TOX, A VE02 0
Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions	:	T1 5L E1 P001, IBC03, LP01, R001 MP19 T7 TP2
 (RID) Tank codes for RID tanks (RID) Special provisions for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Special provisions for carriage - Loading, unloading and handling (RID) Colis express (express parcels) (RID) Hazard identification number (RID) 	::	L4BH TU15 2 W12 CW13, CW28, CW31 CE8 60

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	CHLOROFORM FOR HPLC
32.	CHLOROFORM FOR HPLC

REACH Annex XIV (Authorisation List)

CHLOROFORM FOR HPLC is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

CHLOROFORM FOR HPLC is not on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Chloroform is subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

CHLOROFORM FOR HPLC is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

CHLOROFORM is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

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15.1.2. National regulations

France

Occupational diseases		
Code	Description	
RG 12	Occupational diseases caused by the halogenated aliphatic hydrocarbons listed below: dichloromethane; trichloromethane; triindomethane; tetrabromomethane; chloroethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,2-dichloroethane; 1,2-dibromoethane; 1,1,1-trichloroethane; 2-bromopropane; 1,2-dichloropropane; trichlorethylene; tetrachlorethylene; dichloroacetylene; trichlorofluoromethane; 1,1,2,2-tetrachloro-1,2-difluoroethane; 1,1,1-trichloro-2,2,2-trifluoroethane; 1,2-dichloro-1,1-difluoroethane; 1,1-dichloro-1-fluoroethane	
Germany		
Water hazard class (WGK) Chemicals Prohibition Ordir Hazardous Incident Ordinar	, , , , , , , , , , , , , , , , , , ,	 WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 54). This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	. ,	
SZW-lijst van kankerverwek SZW-lijst van mutagene sto SZW-lijst van reprotoxische SZW-lijst van reprotoxische Vruchtbaarheid SZW-lijst van reprotoxische	ffen stoffen – Borstvoeding stoffen –	 The substance is not listed CHLOROFORM is listed
Denmark		
Danish National Regulation	5	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
Switzerland		
Storage class (LK)		: LK 6.1 - Toxic materials

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

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Full text of H- and EUH-statements:	
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1 Specific target organ toxicity – Repeated exposure, Category 1	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.