CHLOROFORM FOR HPLC MSDS

CAS-No.: 67-66-3 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Product form		:	Substance
		:	
EC Inde	ex-No.	:	602-006-00-4
EC-No.		:	200-663-8
CAS-No	D.	:	67-66-3
Product	t code	:	00077
Formula	а	:	CHCI3
Chemic	al structure	:	
			CHCL

Synonyms

: Trichloromethane

1.2.	Relevant identified uses of the substance or mixture and uses advised against		
1.2.1.	Relevant identified uses		
Industri	al/Professional use spec	: Industrial For professional use only	
Use of	the substance/mixture	: Laboratory chemicals	

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of	f the substance or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Acute toxicity (oral),	H302		
Category 4	11004		
Acute toxicity (inhal.), Category 3	H331		
Skin corrosion/irritation,	H315		
Category 2			
Serious eye damage/eye	H319		

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irritation, Category 2 Carcinogenicity, Category H351 2 Reproductive toxicity, H361d Category 2 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis Specific target organ H372 toxicity — Repeated exposure, Category 1

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40 Xn; R22 Xn; R48/20/22 Xi; R38 Full text of R-phrases: 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. H336 - May cause drowsiness or dizziness. 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/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P311 - Call a POISON CENTER/doctor

2.3.	Other hazards	
No ad	litional information available	

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	: CHLOROFORM FOR HPLC
CAS-No.	: 67-66-3
EC-No.	: 200-663-8
EC Index-No.	: 602-006-00-4

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

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 e	ffects, both acute and delayed		
Symptoms/effects after skin contact	: Causes skin irritation.		
Symptoms/effects after ingestion	: Harmful if swallowed.		
4.3. Indication of any immediate med	lical attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).		
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the	substance 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 measure	5		
6.1. Personal precautions, protective	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Use personal protective equipment as required.		
Emergency procedures	: Stop release.		

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6.2.	Environmental precautions		
Avoid re	elease to the environment.		
6.3.	Methods and material for contai	nment and cleaning up	
Method	s for cleaning up	: Clean up immediately by sweeping or vacuum.	
6.4.	Reference to other sections		
No addi	tional information available		
SECTIO	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precaut	ions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray.	
Hygiene	e measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.	
7.2.	Conditions for safe storage, inc	luding any 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			
SECTION 8: Exposure controls/personal protection			
0.4			
8.1.	Control parameters		
No addi	No additional information available		

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 119.38 g/mol
Colour	: Clear Colorless.
Odour	: sweet pleasant.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 11.6
Melting point	: -63 °C

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Freezing point	: No data available
Boiling point	: 60.5 - 61.5
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
Relative density	: No data available
Density	: 1.492 g/cm ³
Solubility	: Water: Slightly soluble
Log Pow	: 1.97
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.58 cP @ 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

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			
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No additional information available			
	10.6. Hazardous decomposition products		
SECTION 11: Toxicological information	No additional information available		
SECTION 11: Toxicological information			
SECTION TT: TOXICOlogical Information	SECTION 44. Toxicological information		
	SECTION TT: Toxicological information		

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Inhalation: Toxic if inhaled.

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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	: May cause drowsiness or dizziness.	
<u> </u>		
STOT repeated eveneours	· Causes demogra to argona through prolonged or repeated eveneurs	
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
CHLOROFORM FOR HPLC (67-66-3)		
Viscosity, kinematic	0.389 mm²/s	
theorem, antennate		
Potential adverse human health effects	: Harmful if swallowed.	
and symptoms		
SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
CHLOROFORM FOR HPLC (67-66-3)		
Log Pow	1.97	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB asses	sment	
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	: Dispose of contents/container to hazardous or special waste collection point, in	
recommendations	accordance with local, regional, national and/or international regulation.	

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SECTION 14: Transport information

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

14.1. UN number	
	. 1000
UN-No. (ADR)	: 1888
UN-No. (IMDG)	: 1888
UN-No. (IATA)	: 1888
UN-No. (ADN)	: 1888
UN-No. (RID)	: 1888
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CHLOROFORM
Proper Shipping Name (IMDG)	: CHLOROFORM
Proper Shipping Name (IATA)	: Chloroform
Proper Shipping Name (ADN)	: CHLOROFORM
Proper Shipping Name (RID)	: CHLOROFORM
Transport document description (ADR)	: UN 1888 CHLOROFORM, 6.1, III, (E)
Transport document description (IMDG)	: UN 1888 CHLOROFORM, 6.1, III
Transport document description (IMDG)	: UN 1888 Chloroform, 6.1, III
Transport document description (ADN)	: UN 1888 CHLOROFORM, 6.1, III
Transport document description (ADN)	: UN 1888 CHLOROFORM, 6.1, III
Transport document description (RiD)	
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1
	6
IMDG	
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1
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Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 : 6.1
	6
ADN	
	: 6.1
Transport hazard class(es) (ADN)	. U.1

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Danger labels (ADN)	: 6.1
	6
RID	
Transport hazard class(es) (RID)	: 6.1
Danger labels (RID)	: 6.1
	6
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
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
Portable tank and bulk container	: T7
instructions (ADR)	
Portable tank and bulk container special	: TP2
provisions (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)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9

Hazard identification number (Kemler No.) : 60

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Crange plates 60 Innel restriction code (ADR) E EAC code 22 -Transport by soa Packing instructions (IMDG) E P001, LP01 BIG packing instructions (IMDG) 177 Tank poct (Pre) 174 EmS-No. (Fre) 174 EmS-No. (Splitage) 154 Stowage category (IMDG) 174 Stowage and handling (IMDG) 154 Stowage and boding (IMDG) 154 Properties and observations (IMDG) 151 -Air transport FCA PCA Excepted quantifies (IATA) 151 -Air transport 120 PCA Excepted quantifies (IATA) 151 PCA Excepted quantifies (IATA) 160 PCA inmited quantifies (IATA) 160 PCA inmited quantifies (IATA) 160 PCA accepted quantifies (IATA) 680 PCA cocked quantifies (IATA) 160 PCA accepted quantifies (IATA) 160 PCA accepte		
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Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 60

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions CHLOROFORM FOR HPLC is not on the REACH Candidate List CHLOROFORM FOR HPLC is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV; ID No. 54)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed	
SZW-lijst van mutagene stoffen	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: CHLOROFORM FOR HPLC is listed	

Denmark

Recommendations Danish Regulation	: 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
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

Safety Data Sheet

SECTION 16: Other information

Full text of R-, H- and EUH-statements:	
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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
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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
R22	Harmful if swallowed
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
Xi	Irritant
Xn	Harmful

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