



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Chloroform for HPLC & Spectroscopy
Cat No.	HP0075
CAS-No.	67-66-3
M.W.	119.38
EC-No.	200-663-8
Company	High Purity Laboratory Chemicals Pvt. Ltd.
Address	Plot No. 1902, Fansa Road, G.I.D.C., Sarigam – 396 155, DIST. Valsad, Gujarat (INDIA)
Email	customercare@hplcindia.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	67-66-3
Percent	>99.5%
Substance/Mixture	Substance
Synonym	Trichloromethane
Chemical Formula	CHCl ₃

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral	(Category 4)
Acute toxicity, Inhalation	(Category 3)
Skin irritation	(Category 2)
Eye irritation	(Category 2)
Carcinogenicity	(Category 2)
Reproductive toxicity	(Category 2)
Specific target organ toxicity - single exposure	(Category 3)
Specific target organ toxicity - repeated exposure	(Category 1)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Danger

Hazard statement(s)

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 (Liver, Kidney) through prolonged or repeated exposure if swallowed.

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.



SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides, Hydrogen chloride gas.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A clear colourless liquid with a characteristic odour.
Odour	Sweet pleasant
Odour Threshold	no data available
pH	no data available
Melting/freezing point	-63°C
Boiling point/range	60-62°C
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	213.3 hPa at 20.0 °C
Vapour density	no data available
Relative density	1.474-1.480 g
Water solubility	no data available
Log Pow	1.97
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties,	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents, Strong bases, Magnesium, Sodium/sodium oxides, Lithium.
Hazardous decomposition products	no data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - male - 908 mg/kg (Chloroform) LC50 Inhalation - Rat - 6 h - 9,17 mg/l - vapour
Skin corrosion/irritation	Skin - Rabbit (Chloroform) Result: Irritating to skin. - 24 h
Serious eye damage/irritation	Eyes - Rabbit (Chloroform) Result: Irritating to eyes.
Respiratory/skin sensitization	Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity	Laboratory experiments have shown mutagenic effects.
Carcinogenicity	Carcinogenicity - Rat - Oral Tumorigenic: Carcinogenic by RTECS criteria. Leukaemia The National Cancer Institute (NCI) has found clear evidence for carcinogenicity. Limited evidence of a carcinogenic effect. IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chloroform)
Reproductive toxicity	Suspected of damaging the unborn child. Suspected human reproductive toxicant.
Specific target organ toxicity	Single exposure : May cause drowsiness or dizziness.
Specific target organ toxicity	Repeated exposure: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1. -Liver, Kidney
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 162 mg/l - 48 h LC100 - Leuciscus idus (Golden orfe) - 220 mg/l - 48 h LC50 - other fish - 97 mg/l - 96 h LC50 - Danio rerio (zebra fish) - 121 mg/l - 96 h NOEC - Oryzias latipes - 122 mg/l - 10 d NOEC - Oncorhynchus mykiss (rainbow trout) - 24 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 79,00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 51,6 mg/l - 48 h NOEC - Daphnia magna (Water flea) - 120 mg/l - 11 d
Toxicity to algae	EC50 - No information available. - 500,00 mg/l - 24 h
Persistence/degradation	Bioaccumulation Lepomis macrochirus (Bluegill) - 14 d - 0,11 mg/l Bioconcentration factor (BCF): 6
Environmental	Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
 There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	1888
Proper shipping name	CHLOROFORM
Hazard class	6.1
Packaging group	III
Marine pollutant	No

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available



SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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