



Product Name: Chloroform CAS No.: 67-66-3 Version: 01

1. Identification

Product Code : 90013, 90366, 90140, 90367, 91207,98189

Company Name : Advent Chembio Private Limited

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2. Composition/Information on Ingredients

IngredientCAS NoPercentCHLOROFORM67-66-398 - 100%

3. Hazards Identification

Hazard classification

Health hazards

Acute Toxicity(Oral) : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2
Carcinogenicity : Category 2
Toxic to reproduction : Category 2
Specific target organ toxicity - single : Category 1

exposure (Inhalation)

Specific target organ toxicity – : Category 1

repeated exposure (Inhalation)

Environmental hazards

Acute hazards to the aquatic : Category 3

environment

Chronic hazards to the aquatic : Category 3

environment

Labels elements

Hazard symbol



Signal word : Danger

Hazard statement : Harmful if swallowed.

Causes serious eye irritation.

Causes skin irritation. Causes damage to organs.





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Causes damage to organs through prolonged or repeated exposure.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety

> precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.

Avoid release to the environment.

: IF SWALLOWED: Call a POISON CENTER or doctor/physician if Response

> you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/attention. IF IN EYES: 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. IF ON SKIN: Wash with plenty of water. If skin

irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Store at room temperature below 30°C in original packing, keep Storage

container tightly closed away from source of ignition, handle at inert

atmosphere.

Dispose of contents/container to an appropriate treatment and **Disposal**

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result

in GHS classification

None.

4. First Aid Measures

Get medical advice/attention if you feel unwell. If medical advice is General information

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Rinse mouth. Call a POISON CENTER or doctor/physician if you **Ingestion**

feel unwell.

Inhalation Move to fresh air. Get medical attention if symptoms occur.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if

symptoms occur. Wash contaminated clothing before reuse.

Immediately flush with plenty of water for at least 15 minutes. If Eye contact

easy to do, remove contact lenses. Call a physician or poison control

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

center immediately.

Most important symptoms/effects,

needed

Narcotic effect. May cause reproductive effects. Treat symptomatically. Symptoms may be delayed.

acute and delayed

Indication of immediate medical attention and special treatment





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5. Fire Fighting Measures

General fire hazards : In case of fire and/or explosion do not breathe fumes .

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media

Specific hazards arising from the

chemical

None known.

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool. Cool containers

exposed to flames with water until well after the fire is out.

Special protective equipment for

fire-fighters

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Self-contained breathing apparatus and full

protective clothing must be worn in case of fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unauthorized personnel away. Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Do not touch

damaged containers or spilled material unless wearing appropriate

protective clothing.

Methods and material for containment and cleaning up

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later

recovery and disposal.

Notification Procedures : Dike for later disposal. Prevent entry into waterways, sewer,

basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage

or spillage if safe to do so. Avoid discharge into drains, water

courses or onto the ground.





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7. Handling and Storage

Precautions for safe handling

: Use personal protective equipment as required. Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

Conditions for safe storage, including any incompatibilities

Store at room temperature below 30°C in original packing, keep container tightly closed away from source of ignition, handle at inert atmosphere.

8. Exposure Controls Personal Protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
CHLOROFORM	TWA	10 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	2ppm 9.78 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceiling	50 ppm 240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	2ppm 9.78 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be

used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be

available in the immediate work area.

Eye/face protection : Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation, use air-supplied full-mask.

Hygiene measures : Provide eyewash station and safety shower. Always observe good

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that

cannot be cleaned.





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9. Physical and Chemical Properties

Appearance: Colorless Liquid.Odor: Ether-like odorSolubility in water: 5 g/l (25 °C)Relative density: 1.48 (20 °C)pH: No data available

Initial boiling point and boiling : 61 °C

range

Melting point/freezing point:: -63.41 °CVapor pressure: 26.3 kPa (25 °C)Vapor density:: 4.12 AIR=1Formula: CHCl3

Molecular Weight : 119.38 g/mol

10. Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Heat, sparks, flames. Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong bases. Caustics. Aluminum. Chemically

active metals.

Hazardous decomposition products: Oxides of Carbon. Hydrogen Chloride. Chlorine.

11. Toxicological Information

Information on likely routes of exposure

Ingestion: Harmful if swallowed. Irritating. May cause nausea, stomach pain

and vomiting.

Inhalation : Harmful if inhaled. May cause central nervous system effects.

Skin contact : Causes skin irritation .

Eye contact : Causes serious eye irritation .

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rabbit): 9,827 mg/kg

LD 50 (Mouse): 118 mg/kg LD 50 (Rat): 444 mg/kg

Dermal Product : No data available.

Inhalation Product : LC 50 (Rat, 4 h): 47.702 mg/l.

Repeated dose toxicity Product : No data available. Skin corrosion/irritation Product : Causes irritation





No carcinogenic components identified.

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Serious eye damage/eye irritation

Product

Respiratory or skin sensitization

Product

: Not a skin sensitizer.

Causes serious eye irritation.

Carcinogenicity Product : Suspected of causing cancer .

IARC Monographs on the : Overall evaluation: 2B. Possibly carcinogenic to humans.

IARC Monographs on the Evaluation of Carcinogenic Risks

Evaluation of Carcinogenic Risks to Humans CHLOROFORM

US. National Toxicology Program: Reasonably Anticipated to be a Human Carcinogen.

(NTP) Report on Carcinogens

CHLOROFORM

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro ProductIn vivo ProductNo mutagenic components identified.No mutagenic components identified.

Reproductive toxicity Product : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure Product

Specific target organ toxicity -

repeated exposure Product

Aspiration hazard Product :
Other effects :

: Liver. Kidneys.

Central nervous system.

Not classified.None known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product : No data available.

Specified substance(s): LC 50 (Fathead minnow (Pimephales promelas), 96 h): 62.81 -

CHLOROFORM 79.61 mg/l Mortality.

LC 50 (Bluegill (Lepomis macrochirus), 96 h): 18.3 mg/l

Mortality.

Specified substance(s): EC 50 (Brine shrimp (Artemia salina), 24 h): 28.6 - 33.8 mg/l

CHLOROFORM Intoxication

EC 50 (Water flea (Daphnia magna), 24 h): 79 mg/l Intoxication LC 50 (Water flea (Daphnia magna), 216 h): 200 - 512 mg/l

Mortality

LC 50 (Water flea (Daphnia magna), 48 h): 19 - 47 mg/l Mortality

Aquatic invertebrates Product : No data available.

Chronic hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability





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Biodegradation Product BOD/COD ratio Product **Bioaccumulative potential**

Bioconcentration factor (BCF)

Product

Partition coefficient n-octanol /

water (log Kow) Product

Mobility in soil

Other adverse effects

The product is not readily biodegradable.

No data available.

No data available on bioaccumulation.

Log Kow: 1.97

No data available.

Harmful to aquatic life with long lasting effects.

13. Disposal consideration

Disposal instructions Discharge, treatment, or disposal may be subject to national, state,

or local laws.

Since emptied containers retain product residue, follow label **Contaminated packaging**

warnings even after container is emptied.

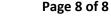
14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	UN 1888	Chloroform	6.1	III	No
IMDG	UN 1888	Chloroform	6.1	III	No
IATA	UN 1888	Chloroform	6.1	III	No

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 or mixture No Data Available.





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16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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