

MATERIAL SAFETY DATA SHEET

CAS Number: 75-09-2

Version:01

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PRODUCT NAME: DICHLOROMETHANE

1. IDENTIFICATION:

90017, 90151, 90389, 98705, 90709, 90711, 90768, 90784, 90721, 91643, 94023, 98107, **Product Code**

98604, 99501

ADVENT CHEMBIO PRIVATE LIMITED **Company Name**

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2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 2

Carcinogenicity : Category 2

Specific target organ

toxicity - single exposure

Category 3

Labels elements

Hazard symbol



Signal word : Warning

Hazard statement Toxic in contact with skin.

Toxic if inhaled. Toxic if swallowed.

Highly flammable liquid and vapor.

Causes skin irritation. Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

Causes damage to organs.

Precautionary statement

Prevention : Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.



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Wear protective gloves/ protective clothing/ eye protection/ face protection.

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

IF exposed or concerned: Get medical advice/ attention. Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Storage

Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal Dispose of contents/container to an appropriate treatment and 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

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or

explosion.

COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Dichloromethane	75-09-2	99 - 100%	Yes

FIRST AID MEASURES:

Ingestion

General information

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Wash skin thoroughly with plenty of water for at least 15 minutes. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing

Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory

before reuse.

system and skin.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Indication of immediate

medical attention and

special treatment needed

: Symptoms may be delayed. Treat symptomatically.



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FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting

procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting : the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

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.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. 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

Notification Procedures

spill for later recovery and disposal. Prevent entry into waterways, sewer, basements or confined areas. 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.

7. HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Store in a dry place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to

the storage, handling, dispensing, and disposal of flammable liquids.



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Occupational exposure

limits : No data available

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

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

General informationventilation, 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. Use explosion-proof ventilation equipment.

Eye/face protection . Wear safety glasses with side shields (or goggles).

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator. Chemical respirator with organic

vapor cartridge.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

Hygiene measures : imaterial and before eating, armong, and/or smoking, notatively wash work electring and protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colorless liquid

Odor : Sweet

Solubility : Miscible in water.

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Molecular Weight : 84.90 g/mol

Specific Gravity : 1.325 g/mL at 25 °C

pH : No data available.

% Volatiles by volume @

21C (70F)

100

Boiling Point : 40.0 °C

Melting Point : -97.0 °C

Flash Point : No data available.



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Vapor Density (Air=1) : 2.93

Vapor Pressure (mm Hg) : 584 hPa at 25 °C

Evaporation Rate (BuAc=1) : 0.71

10. STABILITY AND REACTIVITY:

: No data available. Reactivity

Stable under recommended storage conditions. Contains the following stabilizer(s): 2-**Chemical stability**

Methyl-2-butene

Possibility of hazardous

reactions

No data available.

Conditions to avoid Heat, flames and sparks.

Incompatible materials various plastics, Rubber, Light metals, Metals, Mild steel, Strong oxidizing agents

Hazardous decomposition

products

No data available.

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

Inhalation May cause irritation to the mucous membranes and upper respiratory tract. May cause

central nervous system effects

Skin contact Causes mild skin irritation

Eye contact Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rat): 2.000 mg/kg

Dermal Product : LD 50 (Rat): 2.000 mg/kg

Inhalation Product LC 50 (Rat): 52.000 mg/m3

Repeated dose toxicity

Product

In serious cases absorption of methanol in the body may lead to damage to the eyesight.

Skin corrosion/irritation

Product

Prolonged or repeated skin contact may cause drying, cracking, or irritation

Serious eye damage/eye

irritation Product

: Irritating to eyes.

Respiratory or skin sensitization Product

: Not a skin sensitizer.

Carcinogenicity Product : This substance has no evidence of carcinogenic properties



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IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity : No carcinogenic components identified.

: No carcinogenic components identified.

: No carcinogenic components identified.

In vitro Product : No mutagenic components identified.

Reproductive toxicity

Product

Suspected of damaging fertility or the unborn child.

Specific target organ

toxicity - single exposure

Product

: Central nervous system. Eyes.

Specific target organInhalation - May cause damage to organs through prolonged or repeated exposure. - Central toxicity - repeated : nervous system

exposure Product

Oral - May cause damage to organs through prolonged or repeated exposure. - Liver, Blood

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Aspiration hazard Product : Not data avaialable

Other effects : None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product : LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 193 mg/l

Aquatic invertebrates

Product : EC 50 (Water flea (Daphnia magna), 48 h): > 27 mg/l

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

Biodegradation Product

Expected to be readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential



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Bioconcentration factor

(BCF) Product

: Does not bioaccumulate.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product

Specified substance(s) DICHLOROMETHANE

: No data available

Mobility in soil

No data available.

Other adverse effects

: No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:							
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant		
DOT	UN 1593	Dichloromethane	6.1	III	No		
IMDG	UN 1593	Dichloromethane	6.1	III	No		
IATA	UN 1593	Dichloromethane	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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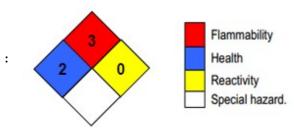
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16. OTHER INFORMATION:

NFPA Hazard ID



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

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