MATERIAL SAFETY DATA SHEET (MSDS)



PRODUCT NAME: DICHLOROMETHANE

CAS No.: 75-09-2

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

1.1. Product identifier

Product form : Substance

Product name : DICHLOROMETHANE

Type of product : Solvent

Product Grades (Applicable) : D0003H(Pack size(s)-1LT, 2.5LT

D0003A (Pack size(s) - 0.5LT, 2.5LT, 25LT

Product Code : D0003
CAS No : 75-09-2
Formula : CH2Cl2

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

1.2.1. Relevant identified uses : Industrial For professional use only.

Laboratory chemicals Manufacture of substances Solvents

1.2.2. Uses advised against : No additional information available

1.3. Details of the supplier of the safety data sheet

RYZE CHEMIE W-68,Mankivli MIDC Badlapur (E), Thane, Maharashtra-421503 www.ryzechemie.com

1.4. Emergency Telephone Number

+91- 99-3006-04-04 :

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye	H319
irritation, Category 2	

Specific target organ toxicity – Single H336

exposure, Category 3, Narcosis

irritation, Category 2 H351

Carcinogenicity, Category

2

Narcosis H337

Specific target organ toxicity — Single

exposure, Category 3,

Respiratory tract irritation H337

Specific target organ toxicity — Repeated exposure, Category 2

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

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label Elements

Labelling according to Regulation (EC) No. 1907/2006 [CLP]

Hazard pictograms (CLP) :





GHS07 GHS08

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged

or repeated exposure repeated exposure.

Precautionary statements (CLP) : P261 - Avoid breathing 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.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : DICHLOROMETHANE

CAS-No. : 75-09-2 EC-No. : 200-838-9 EC Index-No : 602-004-00-3

Full text of R- and H-statements: see section 1

3.2. Mixture

Not applicable

SECTION 4: : First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for

breathing. Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER/doctor

if you feel unwell.

First-aid measures after skin contact ... Wash with plenty of water/.... Wash contaminated clothing

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion : Immediately call a POISON CENTER/doctor. Do not induce

vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Suspected of damaging fertility. May cause damage to

organs. May cause drowsiness or dizziness.

SymptoSymptoms/effects after inhalation : May cause respiratory irritation. May cause drowsiness or

dizziness.

Symptoms/effects after skin contact Causes skin irritation. Irritation.

Symptoms/effects after ingestion None under normal conditions.

SymptoSymptoms/effects after eye contact : May be fatal if swallowed and enters airways. Risk of lung

oedema.

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 : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Do not enter fire area without proper protective equipment,

Protection during firefighting : including respiratory

protection

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static

electric charges. No open flames. No smoking. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No

open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with

skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective

equipment. Use personal protective equipment as required. For further information refer to section 8:

"Exposure controls/personal protection"

Emergency procedures : Ventilate area. Evacuate unnecessary personnel. Stop leak

if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Collect spillage.

On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Notify authorities if product enters

sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual

vapours are flammable.

Precautions for safe handling

: No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist /vapours/spray. Avoid contact with skin and eyes.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions

: Keep in fireproof place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Packaging materials

Store always product in container of same material as original container

7.3. Specific end use(s)

No additional information available

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

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear a mask

Respiratory protection Wear appropriate mask

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.
Molecular mass : 84.93 g/mol
Colour : Colourless.

Odour Codour threshold Codour threshold

Relative evaporation rate : 0.71
Melting point : -97 °C

Freezing point : No data available
Boiling point : 39.8 - 40 °C
Flash point : No data availabl

Auto-ignition temperature : 556 °C

Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure 470.8 hPa at 20° Relative vapour density at 20 °C Not available Relative density Not available Density 1.325 g/cm³ Relative gas density No data available Solubility Water: Slightly soluble

Partition coefficient n-octanol/water (Log Pow) : 1,25

Viscosity, kinematic : No data available Viscosity, dynamic : No data available 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

Direct sunlight. Overheating.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified

Acute toxicity (dermal) Causes skin irritation.

Skin corrosion/irritation : Causes skin irritation. pH: ≈ 7 Serious eye damage/irritation Causes serious eye irritation

Respiratory or skin sensitisation Not classified Germ cell mutagenicity : Not classified Carcinogenicity Not classified

Reproductive toxicity Suspected of damaging fertility. STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure May cause damage to organs through prolonged or

repeated exposure.

Aspiration hazard : Not classified Potential adverse human health Not classified

effects and symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects Ecology - Water Toxic to aquatic life with long lasting effects

Hazardous to the aquatic environment,

short-term(acute)

Not classified Hazardous to the aquatic environment, : Toxic to aquatic life with long lasting effects.

long-term (chronic)

12.2. Persistence and degradability

n-HEXANE 99% AR (110-54-3)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

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

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations

Product/Packaging disposal recommendations

Disposal must be done according to official regulations.
 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be

done according to official regulations.

Additional information

Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container. Do not re-use empty

containers.

SECTION 14: Transport information

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

14.1. UN number

 UN-No. (ADR)
 : UN 1593

 UN-No. (IMDG)
 : UN 1593

 UN-No.(IATA)
 : UN 1593

 UN-No.(ADN)
 : UN 1593

 UN-No. (RID)
 : UN 1593

14.2. UN proper shipping name

Proper Shipping Name (ADR) : DICHLOROMETHANE
Proper Shipping Name (IMDG) : DICHLOROMETHANE
Proper Shipping Name (IATA) : Dichloromethane
Proper Shipping Name (ADN) : DICHLOROMETHANE
Proper Shipping Name (RID) : DICHLOROMETHANE

Transport document description (ADR)

Transport document description (IMDG)

Transport document description (IMDG)

Transport document description (IATA)

Transport document description (ADN)

Transport document description (RID)

UN 1593 DICHLOROMETHANE, 6.1, III

UN 1593 DICHLOROMETHANE, 6.1, III

Transport document description (RID)

UN 1593 DICHLOROMETHANE, 6.1, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1
Danger labels (ADR) : 6.1



IMDG

Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



ADN

Transport hazard class(es) (ADN) : 6.1
Hazard labels (ADN) : 6.1



RID

Transport hazard class(es) (RID) : 6.1 Hazard labels (RID) : 6.1



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

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

Special packing provisions (ADR) : B8

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions

(ADR) . T7

Portable tank and bulk container special

provisions (ADR) TP2
Tank code (ADR) : L4BH

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage - Bulk (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

Orange plates :

60 1593

Tunnel restriction code (ADR) : E EAC code : 2Z

- Transport by sea

Stowage category (IMDG)

Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2

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

Colourless, volatile liquid with heavy vapours. Boiling point:

40°C. When involved in

Properties and observations (IMDG) : a fire, evolves extremely toxic fumes (phosgene). Toxic if

0

swallowed, by skin contact

or by inhalation.

MFAG-No : 160

- Air transport

PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y642 PCA limited quantity max net quantity (IATA) 2L PCA packing instructions (IATA) 655 PCA max net quantity (IATA) 60L CAO packing instructions (IATA) 663 CAO max net quantity (IATA) 220L ERG code (IATA) 6L

- Inland waterway transport

Classification code (ADN) : T1
Limited quantities (ADN) : 5L
Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EP, TOX, A

Special provisions (AND) : 516, 802

Number of blue cones/lights (ADN) :

- Rail transport

Classification code (RID) : T1
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19
Special provisions (RID) : 516

Portable tank and bulk container instructions

(RID) . T7

Portable tank and bulk container special

provisions (RID) TP2
Tank codes for RID tanks (RID) : L4BH
Transport category (RID) : 2
Colis express (express parcels) (RID) : W12
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

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

DICHLOROMETHANE is not on the REACH Candidate List DICHLOROMETHANE is not on the REACH Annex XIV List

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 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 the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification

according to AwSV; ID No. 124).

Hazardous Incident Ordinance : Is not subject of the Hazardous Incident Ordinance

(12. BlmSchV) (12. BlmSchV)

Netherlands

SZW-lijst van reprotoxische stoffen -

SZW-lijst van reprotoxische stoffen -

SZW-lijst van reprotoxische stoffen -

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

Borstvoeding : The substance is not listed

Vruchtbaarheid : DICHLOROMETHANEis listed

Ontwikkeling : The substance is not listed

France

Occupational diseases	
Code	Description
RG 59	Occupational poisoning by hexane

Denmark

Classification remarks : Emergency management guidelines for the storage of

flammable liquids must be followed

Danish National Regulations : 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.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acr	viations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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.