



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : E 10529
Product Name : 1,2-DICHLOROETHANE

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 – 2788700/701/702

Contact for Information : Tel . No. – 0484 - 2788725/726
Emergency Telephone No. : 0484 - 2788725/726

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms:

Ethylene chloride ; ethylene dichloride

CAS-No : 107-06-2 EC-Index-No.: 602-012-00-7 EC –No. 202-458-1

Molar mass : 98.97 Formula Hill : -----

Molecular formula : C₂H₄Cl₂

3. HAZARDS IDENTIFICATION : May cause cancer. Highly flammable .Also harmful if swallowed .

Irritating to eyes, respiratory system and skin .

Restricted to professional users. Attention –Avoid exposure- obtain special instructions before use.

4. FIRST AID MEASURES: After skin contact: wash off with plenty of water.Remove contaminated clothing.

After eye contact : Rinse out with plenty of water with the eyelid held wide open.

After inhalation: fresh air. If necessary , apply mouth-to –mouth resuscitation or mechanical ventilation .Keep airways free.

After swallowing : Immediately make victim drink plenty of water .

Subsequently administer : activated charcoal (20-40 g in 10% slurry).



SAFETY DATA SHEET

Catalogue No. : E 10529
Product Name : 1,2-DICHLOROETHANE

Paraffin oil(3ml/kg).

Laxative : Sodium sulfate (1 tablespoon/1/4 l water). Summon doctor .

Gastric lavage. No milk. No castor oil. No alcohol.

5.FIRE – FIGHTING MEASURES

Suitable extinguishing media : water, CO₂, foam, powder.

Special risks : Combustible. Vapours heavier than air. Formation of explosible mixtures possible with air. Keep away from sources of ignition .

Take measures to prevent electrostatic charging. Development of hazardous combustion gases or vapours possible in the event of fire.

The following may develop in event of fire : chlorine, hydrochloric acid, phosgene.

Special protective equipments for fire fighting: Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Person- related precautionary measures :

Do not inhale vapours/aerosols.

Environmental –protection measures:

Do not allow to enter sewerage system .

Procedures for cleaning/absorption: Take up with liquid –absorbent material (e.g. Chemizorb)). Forward for disposal. Clean up effected area.

7.HANDLING AND STORAGE

Handling : Measures to prevent electrostatic charging.

Protect from light.

Storage : Tightly closed in a well-ventilated place.



SAFETY DATA SHEET

Catalogue No. : E 10529
Product Name : 1,2-DICHLOROETHANE

Keep away from sources of ignition and heat. At +15°C to + 25°C.
Accessible only for authorized persons.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when vapours/aerosols
are generated.

Eye protection : required

Hand protection : required

Protective clothing should be selected specifically For the working
place, depending on concentration and quantity of the hazardous
substances handled. The resistance of the protective clothing to
chemicals should be ascertained with the respective supplier.

Industrial hygiene : Immediately change contaminated clothing.
Apply skin- protective barrier cream. Wash hands after working
with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Colourless
Odour	:	Of solvent
PH value	:	Not available
Viscosity dynamic (20°C)	:	0.80 mPa *s
Melting temperature	:	-35.5 ° C
Boiling temperature	:	84.1 ° C
Ignition temperature	:	440 ° C
Flash point	:	13 °C



SAFETY DATA SHEET

Catalogue No. : **E 10529**
Product Name : **1,2-DICHLOROETHANE**

Explosion limits lower : 6.2 vol%
Upper : 16 vol%
Vapour pressure (20°C) : 87 hPa
Relative vapour density : Not available
Density (20°C) : 1.25 g/cm³
Bulk density : ----
Solubility in water(20°C) : 8.7 g/l
Ethanol (20°C) : Soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating.
Substance to be avoided : Alkali metals, alkaline earth metals,
aluminium in powder form, alkali amides, nitric acid, nitrogen oxides,
oxidizing agent.

Hazardous decomposition products : In the event of fire : chlorine,
hydrochloric acid, phosogens .

Further information : Light-sensitive;
Solvent for : fats, resines.

Unsuitable working materials : various plastics, light metals .

Explosible with air in a vapours/gaseous state.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD₅₀ (oral, rat) : 670 mg/kg.

LC₅₀ (inhalation, rat) : 1000 ppm (V) /7h;

Subacute to chronic toxicity : Animal experiments performed
under conditions comparable with the workplace situation have
shown the substance to be carcinogenic.

Further toxicological information: Severe irritations of : eyes, skin, mucous membrane.



SAFETY DATA SHEET

Catalogue No. : E 10529
Product Name : 1,2-DICHLOROETHANE

After skin contact : Danger of skin absorption.

After swallowing : Irritations of mucous membranes in the mouth,
pharynx, oesophagus and gastrointestinal tract.

After absorption : CNS disorders (shock, narcotic).

Absorption may result in damage of the following : liver, kidneys.

Further data: The product should be handled with the care usual
when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Biologic degradation : Slightly biodegradable.

Behavior in environmental compartments :

Low bioaccumulation potential.

Evaluation number (FRG) (bacteria) : 3.2 ; Evaluation number
(FRG)(fish):3.5 ;

Evaluation number (FRG) (mammal) :3 ;

Ecotoxic effects :

Biological effects : Toxic for aquatic organisms.

Aquatic organisms LC₅₀ : 100 mg/l/96 h ;

Fish toxicity : fish LC₅₀ : 150 mg/l

Bacterial toxicity : *Ps putida* EC₀ : 135 mg/l:

Algal toxicity : *M. aeruginosa* EC₀: 105 mg/l ;

Crustaceans : *Daphnia magna* LC₅₀ : 218 mg/l ;

Further ecologic data:

COD : 1.025 g/g ;

THOD : 0.97 g/g ;

Do not allow to enter waters, waste water, or soil !



SAFETY DATA SHEET

Catalogue No. : E 10529
Product Name : 1,2-DICHLOROETHANE

13. DISPOSAL METHOD

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC Member countries through that you corresponding laws and regulations. We recommend contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVS/GGVE

GGVS/GGVE class : 3 Number and letter : 16 b
ADR/RID class : 3 Number and letter : 16 b
Name of materia l : 1184 ETHYLENDICHLORID

River transport AND/ADNR : not examined

Sea transport IMDG

IMDG class : 3.2 UN-No.: 1184 Packaging group: 11
EMS : 3-03 MFAG : 340

Correct technical name : ETHYLENE DICHLORIDE

Air transport ICAO-TI and IATA-DGR

ICAO/IATA class: 3/6.1 UN/ID-No.: 1184 Packaging group : 11
Correct technical name : ETHYLENE DICHLORIDE



SAFETY DATA SHEET

Catalogue No. : E 10529
Product Name : 1,2-DICHLOROETHANE

5. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol :	F	Highly flammable.
	T	Toxic
R-phrases :	45-11-22-36/37/38	May cause cancer. Highly flammable. Also harmful if swallowed. Irritating to eyes , respiratory system and skin.
S-phrases :	53-45	Avoid exposure- obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
EC-No.:	203-458-1	EC label

Water pollution class : 3 (highly polluting substance)

16. OTHER INFORMATION

Reason for alteration.

Change in product name.

General update.

Regional representation :

The information is given on the authorised Safety Data Sheet for your country.

The information contained here in is based on the present state of our knowledge.

It characterizes the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.

.....-