



SAFETY DATA SHEET SDS/MSDS

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1,2-DICHLOROETHANE
MSDS CAS: 000107-06-2**30022**

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : 1,2-DICHLOROETHANE
Product code : 30022
Identification of the product : 1,2-Dichloroethane
CAS No :107-06-2
EC No :203-458-1
Annex No :602-012-00-7
Chemical formula : C₂H₄Cl₂

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

Use : Laboratory. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : BIOCHEM CHEMOPHARAMA France
82 AV du 85eme de ligne 58200 Cosne Sur Loire
FRANCE
Tel : +33 3.86.27.24.96

1.4. Emergency telephone number

Phone nr : +33 3.86.27.24.96 (9:00am – 4:15pm)

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F; R11
Carc. Cat. 2; R45
Xn; R22
Xi; R36/37/38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

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2. Hazards identification -DSD (continued)

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)

Symbol(s) : F : Highly flammable
T : Toxic

R Phrase(s) : R45 : May cause cancer.
R11 : Highly flammable.
R22 : Harmful if swallowed.
R36/37/38 : Irritating to eyes, respiratory system and skin.

S Phrase(s) : S53 : Avoid exposure - obtain special instructions before use.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Contains : 1,2-Dichloroethane

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.
H350 : May cause cancer.
H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H315 : Causes skin irritation.
H335 : May cause respiratory irritation.

Precautionary statements

- **General** : P201: Obtain special instructions before use.
- **Prevention** : P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.
P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P233: Keep container tightly closed.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.

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2. Hazards identification -DSD (continued)

- **Response** : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
P308+P313: If exposed or concerned : get medical advice.
P332+P313: If skin irritation occurs : Get medical advice.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P370+P378: In case of fire: Use for extinction.
 - **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.
P403+P235: Store in well-ventilated place. Keep cool.
P405: Store locked up.
 - **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
 - Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
 - Contains** : 1,2-Dichloroethane
- 2.3. Other hazards**
- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : 1,2-Dichloroethane
CAS No :107-06-2
EC No :203-458-1
Annex No :602-012-00-7
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
1,2-Dichloroethane	: 100 %	107-06-2	203-458-1	602-012-00-7	----	F; R11 Carc. Cat. 2; R45 Xn; R22 Xi; R36/37/38 ----- Flam. Liq. 2 _ H225 Carc. 1B _ H350 Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335

Contains no other components or impurities which will influence the classification of the product.

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4. First aid measures

4.1. Description of first aid measures

- Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash contaminated clothing before reuse. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
- Eye contact** : Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
- Ingestion** : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

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

- Symptoms relating to use** : May cause cancer.
Causes serious eye irritation.
Causes skin irritation. May cause respiratory irritation.
Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

- Flammable class** : Highly flammable liquid and vapour.
- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.
- Technical measures** : Use special care to avoid static electric charges.
- Special precautions** : Remove ignition sources. No naked lights. No smoking.
- For non-emergency personnel** : Evacuate unnecessary personnel.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

- Handling** : Handle empty containers with care because residual vapours are flammable. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Obtain special instructions before use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
- Special precautions** : No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

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7. Handling and storage (continued)

Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Skin protection** : Wear suitable protective clothing.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour : Clear Colorless

Odour : Chloroform-like odor

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : -35°C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : 413°C

Flammability (solid, gas) : Highly flammable liquid and vapour.
Flammable.

Flash point [°C] : 13°C

Boiling point [°C] : 82- 84°C

Initial boiling point [°C] : 82°C

Final boiling point [°C] : 84°C

Evaporation rate : N/A

Vapour pressure [20°C] : 86 hPa at 20 °C

Vapour pressure mm/Hg : N/A



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9. Physical and chemical properties (continued)

Vapour density	: N/A
Density [g/cm ³]	: 1,24
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: 1.25 g/cm ³ at 20 °C
Solubility in water [% weight]	: 8.69 g/l at 20 °C
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 16,20%
Explosion limits - lower [%]	: 6,20%
Oxidising properties	: No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
May release flammable gases.

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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Harmful if swallowed.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : May cause cancer.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

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12. Ecological information (continued)

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Handle empty containers with care because residual vapours are flammable.

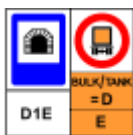
14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : ETHYLENE DICHLORIDE
UN N° : 1184
H.I. nr : 336
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid. 6.1 : Toxic substances.



ADR - Classification code : FT1
ADR - Group : II
ADR - Packing instructions : P001
ADR - Limited Quantity : 1 L
ADR - Tunnel code



: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : ETHYLENE DICHLORIDE
UN N° : 1184



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IMO-IMDG - Class or division : 3 : Flammable liquid. (6.1 : Toxic substances.)
IMO-IMDG - Packing group :II
IMO-IMDG - Packing instructions : P001
IMO-IMDG - Limited quantities :1 L
IMO-IMDG - Marine pollution :No
EMS-Nr : F-E S-D

14.3. Air transport (ICAO-IATA) [English only]


Proper shipping name : ETHYLENE DICHLORIDE
UN N° : 1184
IATA - Class or division : 3 : Flammable liquid. (6.1 : Toxic substances.)
IATA - Packing group :II
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing instruction : 352
- Passenger and Cargo - Maximum Quantity/Packing :1 L
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 364
- Cargo only - Maximum Quantity/Packing : 60 L
IATA - Limited Quantites :1 L
ERG-Nr :3P

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII : With the exception of those listed below:
The components of this product are not subject to restrictions.
Annex XVII
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

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16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3)	: R11 : Highly flammable. R22 : Harmful if swallowed. R36/37/38 : Irritating to eyes, respiratory system and skin. R45 : May cause cancer.
List of full text of H-statements in section 3	: H225 : Highly flammable liquid and vapour. H302 : Harmful if swallowed. H315 : Causes skin irritation. H319 : Causes serious eye irritation. H335 : May cause respiratory irritation. H350 : May cause cancer.
Further information	: None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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