

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

Catalogue Number	CS-C-01547
Product Name	Ethylene-d4 (gas)
CAS No.	683-73-8
Category	Stable Isotope Reagent
Synonyms	-
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email sales@clearsynth.com for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

Code	Statement
H220	Not available
H280	Not available
H336	Not available

Precautionary Statement(s)

Code	Statement
P203	Not available
P210	Not available
P222	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P319	Get medical help if you feel unwell.
P377	Not available
P381	Not available
P403	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulation

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Ethylene-d4 (gas)

CAS Number : 683-73-8

Molecular Formula : C2D4

Molecular Weight : 32.06

Parent Chemical : -

Synonyms : -

Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

- General advice: Remove person from exposure. Show this SDS to medical personnel.
- Inhalation: Move to fresh air. Keep at rest. If breathing is difficult, seek medical attention.
- Skin contact: Gas: not expected to cause skin effects under normal conditions. If cold gas or rapidly expanding gas causes frostbite, rinse with lukewarm water; do not rub; obtain medical attention.

- Eye contact: If exposure to cold gas causes irritation/frostbite, rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; seek medical attention.
- Ingestion: Not a likely route of exposure for a gas. Seek medical advice if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

- May cause dizziness, headache, nausea, or unconsciousness due to oxygen displacement in confined areas.
- Contact with liquefied gas or cold gas may cause frostbite.
- No data available for delayed effects.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Provide supportive care. Consider oxygen administration by trained personnel if indicated.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

- Flammable gas. Vapors may form explosive mixtures with air.
- Gas may accumulate in low areas; may travel to ignition source and flash back.
- Containers may rupture when heated.
- Hazardous combustion products: Not available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers with water spray from a safe distance.
- If safe to do so, stop flow of gas.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Evacuate area. Eliminate all ignition sources.
- Provide adequate ventilation. Avoid breathing gas.
- Use appropriate respiratory protection where ventilation is inadequate.

6.2 Environmental precautions

- Prevent release to confined spaces, sewers, basements, or work pits.
- No data available on specific environmental precautions.

6.3 Methods and material for containment and cleaning up

- Stop leak if safe to do so.
- Ventilate area. Use non-sparking tools and explosion-proof equipment where applicable.

6.4 Reference to other sections

- See Section 8 for exposure controls/personal protection.
- See Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Handle as a flammable compressed gas.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Use only with adequate ventilation.
- Avoid breathing gas. Avoid release to confined spaces.
- Use equipment rated for flammable gases; ground/bond where applicable.

7.2 Conditions for safe storage, including any incompatibilities

- Store cylinders secured upright in a cool, well-ventilated area.
- Protect from sunlight and physical damage.
- Keep away from oxidizers and sources of ignition.
- Storage temperature: Not available.

7.3 Specific end use(s)

- Stable isotope reagent. Specific uses: Not available.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Occupational exposure limits: Not available.
- Biological limit values: Not available.

8.2 Exposure controls

- Engineering controls: Use local exhaust or general ventilation to maintain safe oxygen levels and minimize flammable atmosphere formation. Use explosion-proof ventilation where required.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical goggles as appropriate.
- Skin protection: Protective gloves suitable for handling cylinders and cold surfaces; protective clothing as needed.
- Respiratory protection: If ventilation is inadequate or in emergency response, use an appropriate respirator; for unknown concentrations or oxygen-deficient atmospheres, use SCBA.
- Thermal hazards: Protect against cold burns/frostbite from rapidly expanding gas or contact with cold surfaces.
- Hygiene measures: Wash hands after handling. Do not eat, drink, or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available

Test	Result
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

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10.1 Reactivity

- Flammable gas; may form explosive mixtures with air.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No data available.

10.4 Conditions to avoid

- Heat, sparks, open flames, static discharge, and other ignition sources.
- Confined spaces and inadequate ventilation.

10.5 Incompatible materials

- Oxidizing agents. Other incompatibilities: Not available.

10.6 Hazardous decomposition products

- Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: No data available.
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: No data available.
- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Not available.

SECTION 12: Ecological information

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12.1 Toxicity

- No data available.

12.2 Persistence and degradability

- No data available.

12.3 Bioaccumulative potential

- No data available.

12.4 Mobility in soil

- No data available.

12.5 Results of PBT and vPvB assessment

- Not available.

12.6 Endocrine disrupting properties

- No data available.

12.7 Other adverse effects

- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to sewers or confined spaces.
- Cylinders: Do not puncture or incinerate. Return to supplier where possible.
- Waste treatment methods: Not available.

SECTION 14: Transport information

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- UN number: Not available.
- UN proper shipping name: Not available.
- Transport hazard class(es): Not available.
- Packing group: Not available.
- Environmental hazards: Not available.
- Special precautions for user: Transport cylinders secured upright; protect from damage; keep away from heat and ignition sources.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulatory listings (e.g., TSCA/DSL/EINECS/ENCS/IECSC, etc.): Not available.
- GHS classification/label elements: Not available.

15.2 Chemical safety assessment

- Not available.

SECTION 16: Other information

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- Product: Ethylene-d4 (gas)
- Catalog No.: CS-C-01547
- CAS No.: 683-73-8
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Revision information

- Prepared as SDS-style text based on limited product information provided. Many regulatory and toxicological/physical data fields are not available.

Disclaimer

- The information is believed to be accurate to the best of available knowledge; it is provided without warranty. Users are responsible for determining suitability and for compliance with applicable regulations.

DISCLAIMER

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