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

Catalogue Number	CS-C-01550
Product Name	Propane-2,2-d2 (gas)
CAS No.	2875-95-8
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

Precautionary Statement(s)

Code	Statement
P203	Not available
P210	Not available
P222	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P377	Not available
P381	Not available
P403	Not available
P410+P403	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Propane-2,2-d2 (gas)
CAS Number : 2875-95-8
Molecular Formula : C3H6D2
Molecular Weight : 46.08
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 victim from exposure. Keep at rest. Seek medical attention if symptoms persist.
- Inhalation: Move person to fresh air. If breathing is difficult, administer oxygen by trained personnel. If not breathing, give artificial respiration by trained personnel. Get medical attention.
- Skin contact: Gas: not expected to cause skin effects under normal conditions. If contact with cold gas or rapidly expanding gas causes frostbite, gently warm affected area with lukewarm water. Do not rub. Get medical attention.
- Eye contact: If exposure to cold gas causes eye injury, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Get medical attention.
- Ingestion: Not a likely route of exposure for a gas. If swallowed (unlikely), rinse mouth. Do not induce vomiting. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
- May cause dizziness, headache, nausea, and central nervous system depression at high concentrations.
- Simple asphyxiant: may displace oxygen and cause suffocation in confined spaces.
- Contact with cold gas/liquid (if applicable) may cause frostbite.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Ensure adequate oxygenation and ventilation.
- Frostbite: treat as thermal burn; obtain medical attention.
- No data available on specific antidote.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
- Suitable extinguishing media: Dry chemical, carbon dioxide, alcohol-resistant foam, water spray/fog.
- Unsuitable extinguishing media: Direct water jet may be ineffective.

5.2 Special hazards arising from the substance or mixture
- Flammable gas. Vapors may form explosive mixtures with air.
- Gas may travel to ignition source and flash back.
- Containers may rupture when heated.
- Combustion may produce carbon oxides. Other decomposition products: No data available.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers exposed to fire with water spray from a safe distance.
- If safe to do so, stop flow of gas.
- Evacuate area and fight fire from maximum distance or protected location.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Evacuate unnecessary personnel. 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 aquatic toxicity; avoid uncontrolled release.

6.3 Methods and material for containment and cleaning up
- Stop leak if safe to do so.
- Ventilate area. Use explosion-proof equipment.
- For large releases, isolate area and allow gas to disperse in a well-ventilated area.

6.4 Reference to other sections
- See Section 8 for exposure controls/personal protection and 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.

- Use only in well-ventilated areas. Avoid breathing gas.
- Keep away from heat, sparks, open flames, hot surfaces, and other ignition sources. No smoking.
- Use non-sparking tools and explosion-proof equipment where applicable.
- Prevent electrostatic discharge; bond/ground equipment as appropriate.
- Protect cylinders from physical damage. Do not puncture or incinerate containers.

7.2 Conditions for safe storage, including any incompatibilities
- Store in a cool, dry, well-ventilated place away from ignition sources.
- Keep container/cylinder tightly closed and secured upright.
- Store in accordance with local regulations for flammable gases.
- Incompatibilities: Strong oxidizing agents. Other incompatibilities: 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
- Appropriate engineering controls: Use local exhaust and/or general ventilation to maintain concentrations below applicable limits and to prevent oxygen deficiency. 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 cold contact if risk of frostbite; otherwise not normally required for gas handling.
- Respiratory protection: If ventilation is inadequate or in confined spaces, use an approved air-supplied respirator/SCBA.
- Thermal hazards: Cold gas/rapid expansion may cause frostbite; wear appropriate insulated gloves.
- Environmental exposure controls: Avoid release to confined spaces and the environment.

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
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

SECTION 10: Stability and reactivity

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
- Hazardous polymerization: Not available.

10.4 Conditions to avoid
- Heat, sparks, open flames, hot surfaces, static discharge, and other ignition sources.
- Confined spaces with inadequate ventilation.

10.5 Incompatible materials
- Strong oxidizing agents.

10.6 Hazardous decomposition products
- Carbon oxides under combustion. Other 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

SECTION 12: Ecological information

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 into sewers or confined spaces.
- Empty containers/cylinders may contain residual gas; do not puncture, cut, or weld.
- Disposal of unused product: Return to supplier or licensed waste contractor where applicable.
- Waste codes: Not available.

SECTION 14: Transport information

SECTION 14: Transport information

- 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 and secure cylinders upright. Keep away from heat and ignition sources. Ensure valve protection cap is in place where applicable.
- Transport in bulk according to IMO instruments: Not available.

SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulations: Not available.
- Chemical inventories (TSCA/DSL/EINECS/ENCS/AICS/IECSC, etc.): Not available.

15.2 Chemical safety assessment
- No data available.

SECTION 16: Other information

SECTION 16: Other information

- Product name: Propane-2,2-d2 (gas)
- CAS No.: 2875-95-8
- Catalog No.: CS-C-01550
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

- Revision date: Not available.
- Disclaimer: The information provided is believed to be accurate based on available product identification; however, no warranty is expressed or implied. Users must determine suitability for their particular use and comply with applicable laws and regulations.
- Abbreviations: SCBA (Self-Contained Breathing Apparatus); PBT (Persistent, Bioaccumulative and Toxic); vPvB (very Persistent and very Bioaccumulative).

DISCLAIMER

This MSDS is system-generated. Please verify and confirm all data, statements, and values with the Support Team before use or distribution.