

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

Catalogue Number	CS-C-01534
Product Name	2,2-Dimethylpropane-d12 (gas)
CAS No.	5152-54-5
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: Not available

Not available

Hazard Statement(s)

Code	Statement
Not available	Not available

Precautionary Statement(s)

Code	Statement
Not available	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : 2,2-Dimethylpropane-d12 (gas)

CAS Number : 5152-54-5

Molecular Formula : C5D12

Molecular Weight : 84.17

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 from exposure. Show this safety data sheet to the doctor in attendance.

Inhalation: Move person to fresh air. If breathing is difficult, provide oxygen by trained personnel. If not breathing, give artificial respiration by trained personnel. Get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Not a likely route of exposure for a gas. If swallowed, rinse mouth. Do NOT induce vomiting. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Not available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures appropriate to surrounding fire (e.g., dry chemical, carbon dioxide, water spray, alcohol-resistant foam).

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Flammable gas/vapor may form explosive mixtures with air. Vapors may travel to ignition source and flash back. Containers may rupture when heated.

Hazardous combustion products: Carbon oxides. Deuterated hydrocarbons may produce similar combustion products. No data 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. Fight fire from a protected location. Prevent fire-fighting water from entering drains where possible.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Eliminate all ignition sources. Provide adequate ventilation. Avoid breathing gas/vapors. Use appropriate respiratory protection.

6.2 Environmental precautions

Prevent release to the environment where possible. Avoid discharge to drains.

6.3 Methods and material for containment and cleaning up

For gas release: Stop leak if safe to do so. Ventilate area. Use water spray to reduce vapors if appropriate and safe. Isolate area until gas has dispersed.

6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only with adequate ventilation. Avoid breathing gas/vapors. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Use non-sparking tools and explosion-proof equipment where required. Ground/bond containers and receiving equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed container/cylinder in a cool, well-ventilated place. Protect from sunlight and sources of ignition. Store away from oxidizing agents. Keep container secured and upright as applicable.

7.3 Specific end use(s)

Stable isotope reagent. For laboratory/research use. Not available.

SECTION 8: Exposure controls / personal protection

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8.1 Control parameters

Occupational exposure limits: Not available.

Biological limit values: Not available.

8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or general dilution ventilation to maintain airborne concentrations below applicable limits (if established). Use explosion-proof ventilation where appropriate.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical goggles.
- Skin protection: Protective gloves suitable for chemicals; protective clothing as needed.
- Respiratory protection: If ventilation is inadequate or in case of release, use appropriate respiratory protection. For emergency response to significant releases, use SCBA.
- 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
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

Not available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Heat, sparks, open flames, and other ignition sources. Static discharge. Incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents. Not available.

10.6 Hazardous decomposition products

Carbon oxides. 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

Not available.

12.7 Other adverse effects

Not available.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

Product/Residues: Dispose of in accordance with local/regional/national/international regulations. For gases, do not discharge into confined spaces or drains. Consider controlled incineration or approved waste contractor where permitted.

Contaminated packaging: Dispose of container/cylinder in accordance with applicable regulations. Do not puncture or incinerate containers. Return cylinders to supplier where applicable.

Waste code: Not available.

SECTION 14: Transport information

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14.1 UN number

Not available.

14.2 UN proper shipping name

Not available.

14.3 Transport hazard class(es)

Not available.

14.4 Packing group

Not available.

14.5 Environmental hazards

Not available.

14.6 Special precautions for user

Keep away from ignition sources. Ensure containers are secured and protected from damage during transport.

14.7 Maritime 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

Not available.

15.2 Chemical safety assessment

Not available.

SECTION 16: Other information

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Catalog No.: CS-C-01534

CAS No.: 5152-54-5

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Revision date: 2026-03-16

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