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

Catalogue Number	CS-O-45174
Product Name	Perfluoro-n-[13C4]butanoic acid
CAS No.	1017281-29-6
Category	Stable Isotope Reagent
Synonyms	Butanoic-1,2,3,4-13C4 acid, 2,2,3,3,4,4,4-heptafluoro-
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
H314	Not available
H318	Causes serious eye damage.

Precautionary Statement(s)

Code	Statement
P260	Not available
P264	Wash hands thoroughly after handling.
P264+P265	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	Not available
P302+P361+P354	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	Not available
P316	Not available
P317	Not available
P321	Specific treatment (see … on this label).
P363	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Perfluoro-n-[13C4]butanoic acid
CAS Number : 1017281-29-6
Molecular Formula : 13C4HF7O2
Molecular Weight : 218.01
Parent Chemical : Not available
Synonyms : Butanoic-1,2,3,4-13C4 acid, 2,2,3,3,4,4,4-heptafluoro-
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures
General advice:
- Seek medical attention if symptoms occur or persist.
- Show this Safety Data Sheet to the physician in attendance.

Inhalation:
- Move person to fresh air.
- If breathing is difficult, seek medical attention.

Skin contact:
- Remove contaminated clothing and shoes.
- Wash skin with plenty of water and soap.
- Seek medical attention if irritation develops.

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

Ingestion:
- Rinse mouth with water.
- Do not induce vomiting unless directed by medical personnel.
- Seek 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.
- No data available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media:
- Use extinguishing measures appropriate to surrounding fire.
- Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide (CO2).

Unsuitable extinguishing media:
- Not available.

5.2 Special hazards arising from the substance or mixture
- Thermal decomposition may produce hazardous fumes.
- Hydrogen fluoride (HF) and other fluorinated decomposition products may be generated.
- Carbon oxides may be generated.

5.3 Advice for firefighters
- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool unopened containers exposed to fire with water spray.
- Avoid inhalation of combustion/decomposition products.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Evacuate unnecessary personnel.
- Ensure adequate ventilation.

- Avoid breathing dust/vapors/mist.
- Wear appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions
- Avoid release to the environment.
- Prevent entry into drains, surface water, and soil.

6.3 Methods and material for containment and cleaning up
- Contain spill.
- Collect using inert absorbent material and place in a suitable, labeled container for disposal.
- Clean contaminated area with water and detergent as appropriate.

6.4 Reference to other sections
- See Section 8 for personal protective equipment.
- See Section 13 for disposal considerations.

SECTION-7: Handling and storage

SECTION 7: Handling and storage

7.1 Precautions for safe handling
- Handle in accordance with good industrial hygiene and safety practice.
- Avoid contact with skin and eyes.
- Avoid breathing dust/vapors/mist.
- Use only with adequate ventilation.
- Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
- Store in a tightly closed container.
- Store in a cool, dry, well-ventilated place.
- Protect from moisture.
- Keep away from incompatible materials.

Incompatible materials:
- Strong oxidizing agents.
- Strong bases.
- Strong reducing agents.

7.3 Specific end use(s)
- Stable isotope reagent. For research and development use only.

SECTION 8: Exposure controls / personal protection

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits:
- No data available.

Biological limit values:
- No data available.

8.2 Exposure controls
Engineering controls:
- Use local exhaust ventilation or general ventilation to maintain exposure below applicable limits.

Personal protective equipment (PPE):
Eye/face protection:
- Safety glasses with side shields or chemical splash goggles.

Skin protection:
- Wear protective gloves.
- Wear protective clothing appropriate to the risk of exposure.

Respiratory protection:
- If ventilation is inadequate, use appropriate respiratory protection.

Hygiene measures:
- Do not eat, drink, or smoke when using this product.
- Wash hands after handling and before breaks.

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

Property	Value
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
- No data available.

10.2 Chemical stability
- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
- No data available.

10.4 Conditions to avoid
- Heat.
- Moisture.
- Incompatible materials.

10.5 Incompatible materials
- Strong oxidizing agents.
- Strong bases.
- Strong reducing agents.

10.6 Hazardous decomposition products
- Hydrogen fluoride (HF).
- Carbon oxides.
- Other fluorinated compounds.

Note: Decomposition products depend on temperature, air supply, and presence of other materials.

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
- No data available.

12.6 Endocrine disrupting properties
- No data available.

12.7 Other adverse effects
- Avoid release to the environment.
- No data available.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product:
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Do not discharge to drains or the environment.

Contaminated packaging:
- Dispose of as unused product.

Waste code:

- Not available.

SECTION 14: Transport information

SECTION 14: Transport information

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
- Handle containers carefully to prevent damage and release.

14.7 Maritime 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
- Not available.

Chemical inventories (e.g., TSCA/DSL/EINECS/ENCS/AICS/IECSC):
- Not available.

15.2 Chemical safety assessment
- No data available.

SECTION 16: Other information

SECTION 16: Other information

Product identifier:
- Product name: Perfluoro-n-[13C4]butanoic acid
- Catalog No.: CS-O-45174
- CAS No.: 1017281-29-6
- Synonyms: Butanoic-1,2,3,4-13C4 acid, 2,2,3,3,4,4,4-heptafluoro-
- Category: Stable Isotope Reagent
- Supplier: Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Disclaimer:

- The information provided is believed to be accurate based on available data; however, no warranty is expressed or implied.
- Users are responsible for determining suitability for their particular application and for compliance with applicable laws and regulations.

Revision information:
- Revision date: Not available.
- Version: Not available.

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