

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

Catalogue Number	CS-O-61725
Product Name	(R)-N-Nitroso Bromhexine EP Impurity E
CAS No.	Not available
Category	Impurity
Synonyms	(R)-6,8-dibromo-3-cyclohexyl-3-methyl-1-nitroso-1,2,3,4-tetrahydroquinazolin-3-ium
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 : (R)-N-Nitroso Bromhexine EP Impurity E
CAS Number : Not available
Molecular Formula : C₁₅H₂₀Br₂N₃O⁺
Molecular Weight : 418.15
Parent Chemical : Bromhexine
Synonyms : (R)-6,8-dibromo-3-cyclohexyl-3-methyl-1-nitroso-1,2,3,4-tetrahydroquinazolin-3-ium
Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

General advice:

- Show this safety data sheet to the doctor in attendance.
- Move out of dangerous area. Keep at rest.
- Seek medical attention if symptoms occur or persist.

Inhalation:

- If breathed in, move person into fresh air.
- If not breathing, give artificial respiration by trained personnel.
- Get medical attention.

Skin contact:

- Remove contaminated clothing and shoes.
- Wash skin thoroughly with soap and plenty of water.
- Get medical attention if irritation or symptoms develop.

Eye contact:

- Rinse cautiously with water for several minutes.
- Remove contact lenses if present and easy to do; continue rinsing.
- Get medical attention.

Ingestion:

- Rinse mouth with water.
- Do NOT induce vomiting unless directed by medical personnel.
- Never give anything by mouth to an unconscious person.
- 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.
- Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media:

- Not available.

5.2 Special hazards arising from the substance or mixture

- May decompose under fire conditions to release hazardous fumes.
- Nitrogen oxides (NO_x), hydrogen bromide (HBr), and other irritating/toxic fumes may be generated.
- Not available (additional decomposition products).

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Use water spray to cool unopened containers.
- Prevent fire-fighting water from entering drains or watercourses.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

- Evacuate unnecessary personnel.
- Avoid breathing dust/vapors/mist.
- Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions

- Avoid release to the environment.
- Prevent further leakage or spillage if safe to do so.
- Prevent entry into waterways, sewers, basements, or confined areas.

6.3 Methods and material for containment and cleaning up

- For small spills: Carefully sweep up or scoop up without generating dust; place in a suitable, closed container for disposal.
- For large spills: Contain spill; collect using methods that minimize dust generation.
- Clean contaminated area with suitable cleaning method; avoid wash-down to drains.

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 formation of dust and aerosols.
- Avoid breathing dust/vapors.

- Avoid contact with skin, eyes, and clothing.
- Use only with adequate ventilation (local exhaust recommended).
- 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: Not available.

7.3 Specific end use(s)

- Laboratory/research use. Not for drug, household, or other uses.
- Not available (additional specific uses).

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 ventilation or other engineering controls to maintain airborne levels below applicable exposure limits.
- If exposure limits are not established, minimize exposure as low as reasonably achievable.

Personal protective equipment (PPE)

Eye/face protection:

- Safety glasses with side shields or chemical splash goggles.

Skin protection:

- Wear protective gloves (material selection dependent on use conditions; not available).
- Wear protective clothing to prevent skin contact.

Respiratory protection:

- If ventilation is inadequate or dust/aerosols may be generated, use a suitable particulate respirator.
- Respirator selection must be based on hazard and use conditions.

Hygiene measures:

- Handle in accordance with good industrial hygiene and safety practice.
- Remove contaminated clothing and wash before reuse.

Environmental exposure controls:

- Avoid release to 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

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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, flames, sparks.
- Moisture (if applicable).
- Dust generation.
- Not available (additional conditions).

10.5 Incompatible materials

- Not available.

10.6 Hazardous decomposition products

- Nitrogen oxides (NO_x).
- Hydrogen bromide (HBr).
- Not available (additional decomposition products).

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Incineration or disposal via a licensed waste contractor is recommended where permitted.

Contaminated packaging:

- Dispose of as unused product.

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

- Not available.

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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- CAS no.: Not available
- Molecular weight: 418.15
- Category: Impurity
- Parent chemical: Bromhexine

Supplier:

- Clearsynth Labs Ltd., Mumbai, India
- Emergency phone: +91-22-245045900

Disclaimer:

- The information provided is based on available product information and is believed to be accurate; however, no warranty is expressed or implied. Users must determine suitability for their particular purpose and comply with applicable laws and regulations.

Revision information:

- Not available.

DISCLAIMER

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