

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

| | |
|-----------------------------|--|
| Catalogue Number | CS-DB-00028 |
| Product Name | Borane, 1M in tetrahydrofuran |
| CAS No. | 14044-65-6 |
| Category | Reagents |
| Synonyms | oxolane borane;Tetrahydrofuran borane; Borane tetrahydrofuran complex solution |
| 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:

- Skin irritation (Category 2)
- Serious eye damage/eye irritation (Category 2)
- Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning



Hazard Statement(s)

| Code | Statement |
|------|---------------|
| H225 | Not available |
| H260 | Not available |

| | |
|------|--------------------------------|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | Not available |

Precautionary Statement(s)

| Code | Statement |
|----------------|---|
| P210 | Not available |
| P223 | Not available |
| P231+P232 | Not available |
| P233 | Not available |
| P240 | Not available |
| P241 | Not available |
| P242 | Not available |
| P243 | Not available |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P264+P265 | Not available |
| P270 | Not available |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P317 | Not available |
| P302+P335+P334 | Not available |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P303+P361+P353 | Not available |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. |
| P305+P354+P338 | Not available |
| P317 | Not available |

| | |
|-----------|---|
| P319 | Get medical help if you feel unwell. |
| P321 | Specific treatment (see ... on this label). |
| P330 | Not available |
| P332+P317 | If skin irritation occurs: Get medical help. |
| P337+P317 | If eye irritation persists: Get medical help. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | Not available |
| P402+P404 | Not available |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Not available |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulation |

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Borane, 1M in tetrahydrofuran

CAS Number : 14044-65-6

Molecular Formula : C₄H₁₁BO

Molecular Weight : 85.94

Parent Chemical : -

Synonyms : oxolane borane; Tetrahydrofuran borane; Borane tetrahydrofuran complex solution

Concentration : Not available

SECTION 4: First aid measures

SECTION 4: First-aid measures

4.1 Description of first aid measures

General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms occur or persist.

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

Skin contact: Wash immediately with plenty of soap and water. Seek 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. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. 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. Not available.

SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Flammable solvent solution. Vapors may form explosive mixtures with air. Thermal decomposition may produce irritating and/or toxic fumes. 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. Fight fire from upwind. Prevent fire-fighting water from entering drains or waterways.

SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate unnecessary personnel. Provide adequate ventilation. Avoid breathing vapors/mist. Avoid contact with skin and eyes. Eliminate all ignition sources. Use appropriate personal protective equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into drains, sewers, or waterways.

6.3 Methods and material for containment and cleaning up

Contain spill with inert absorbent material (e.g., sand, vermiculite). Collect into suitable, closed containers for disposal. Do not flush to drain. Clean spill area with suitable solvent/cleaning method compatible with the material; avoid generating vapors.

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

Handle in a well-ventilated area, preferably in a fume hood. Avoid breathing vapors/mist. Avoid contact with skin and eyes. Keep away from heat, sparks, open flames, and hot surfaces. Use non-sparking tools and explosion-proof equipment where appropriate. Ground/bond container and receiving equipment. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep away from ignition sources. Store tightly closed in original container. Protect from moisture. Incompatibilities: Not available.

7.3 Specific end use(s)

Laboratory reagent. 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 ventilation or fume hood. Provide eyewash station and safety shower.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Chemical-resistant gloves; protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection. Not available.
- Hygiene measures: Wash hands after handling. Remove contaminated clothing and wash before reuse.

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 | Liquid |
| b) Color | Colorless to pale yellow |
| c) Odor | No data available |
| d) pH | No data available |
| e) Vapour Pressure | Not applicable |
| f) Viscosity | No data available |
| g) Initial Boiling Point and boiling range | Not applicable |
| h) Melting Point / Freezing Point | No data available |

| Property | Value |
|------------------------------|-------------------|
| i) Auto Ignition Temperature | No data available |
| j) Flash Point | Not applicable |
| k) Explosion Limit, Lower | Not applicable |
| l) Explosion Limit, Upper | Not applicable |
| 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

Not available.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Heat, sparks, open flame, and other ignition sources. Moisture. Not available.

10.5 Incompatible materials

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

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 Other adverse effects

Not 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 drains. Treat as hazardous waste. Contaminated packaging: Dispose of as unused product. 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

Not available.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

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-DB-00028

CAS no.: 14044-65-6

Synonyms: oxolane borane; Tetrahydrofuran borane; Borane tetrahydrofuran complex solution

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

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

Revision date: Not available.

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