



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
HPR, Schedule 1

Revision date 18-Nov-2024

Revision Number 1

## 1. Identification

### Product identifier

Product Name (R/S)- $\delta$ -Hexalactone-d6

### Other means of identification

Product Code(s) TRC-H294197-25MG

### Recommended use of the chemical and restrictions on use

Recommended use Laboratory use

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Initial supplier identifier

Toronto Research Chemicals  
2 Brisbane Road  
Toronto, ON  
M3J 2J8

Emergency number: +1(416) 665-9696 between 0800-1700 (GMT-5)

Fax: +14166654439

Web: [www.trc-canada.com](http://www.trc-canada.com)

E-mail [sds-request@lgcgroup.com](mailto:sds-request@lgcgroup.com)

### Emergency telephone number

#### **Emergency Telephone**

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300

Rest of the world +1 703-741-3877

## 2. Hazard identification

### Classification

This product is not considered hazardous in accordance with the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

### Label elements



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

## Hazard statements

This product is not considered hazardous in accordance with the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

## Other information

No information available.

## 3. Composition/information on ingredients

### Substance

Formula C<sub>6</sub>H<sub>4</sub>D<sub>6</sub>O<sub>2</sub>

| Chemical name                   | CAS No. | Weight-%  | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---------------------------------|---------|-----------|------------------------------------------------------------------------------|-------------------------------------------------------------|
| (R/S)- $\delta$ -Hexalactone-d6 | -       | 90 - 100% | -                                                                            |                                                             |

### Additional information

This product contains a stable isotope

## 4. First-aid measures

### Description of first aid measures

|              |                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Remove to fresh air.                                                                                              |
| Eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |
| Skin contact | Wash skin with soap and water.                                                                                    |
| Ingestion    | Rinse mouth.                                                                                                      |

### Most important symptoms and effects, both acute and delayed

Symptoms No information available.



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

## Indication of any immediate medical attention and special treatment needed

**Note to doctors** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** No information available.

### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labelled containers.

## 7. Handling and storage

### Precautions for safe handling



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

## 8. Exposure controls/personal protection

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | Oily                     |
| <b>Colour</b>          | colourless               |
| <b>Odour</b>           | No information available |
| <b>Odour threshold</b> | No information available |



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

| <u>Property</u>                         | <u>Values</u>             | <u>Remarks • Method</u> |
|-----------------------------------------|---------------------------|-------------------------|
| pH                                      | No data available         | None known              |
| Melting point / freezing point          | No data available         | None known              |
| Initial boiling point and boiling range | No data available         | None known              |
| Flash point                             | No data available         | None known              |
| Evaporation rate                        | No data available         | None known              |
| Flammability                            | No data available         | None known              |
| Flammability Limit in Air               |                           | None known              |
| Upper flammability or explosive limits  | No data available         |                         |
| Lower flammability or explosive limits  | No data available         |                         |
| Vapour pressure                         | No data available         | None known              |
| Relative vapour density                 | No data available         | None known              |
| Relative density                        | No data available         | None known              |
| Water solubility                        | No data available         | None known              |
| Solubility in other solvents            | No data available         | None known              |
| Partition coefficient                   | No data available         | None known              |
| Autoignition temperature                | No data available         | None known              |
| Decomposition temperature               |                           | None known              |
| Kinematic viscosity                     | No data available         | None known              |
| Dynamic viscosity                       | No data available         | None known              |
| <u>Other information</u>                |                           |                         |
| Explosive properties                    | No information available. |                         |
| Oxidising properties                    | No information available. |                         |
| Softening point                         | No information available  |                         |
| Molecular weight                        | 120.18                    |                         |
| VOC content                             | No information available  |                         |
| Liquid Density                          | No information available  |                         |
| Bulk density                            | No information available  |                         |

## 10. Stability and reactivity

### Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion    | Specific test data for the substance or mixture is not available. |

### Symptoms related to the physical, chemical and toxicological characteristics

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

### Acute toxicity

#### Numerical measures of toxicity

No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitisation | No information available. |
| Germ cell mutagenicity            | No information available. |
| Carcinogenicity                   | No information available. |
| Reproductive toxicity             | No information available. |
| STOT - single exposure            | No information available. |



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

STOT - repeated exposure No information available.

Aspiration hazard No information available.

## 12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available.

## 13. Disposal considerations

### Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

## 14. Transport information

TDG Not regulated

DOT Not regulated

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## International Inventories

### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

### DSL/NDSL

Contact supplier for inventory compliance status.

### EINECS/ELINCS

Contact supplier for inventory compliance status.

### ENCS

Contact supplier for inventory compliance status.

### IECSC

Contact supplier for inventory compliance status.

### KECL

Contact supplier for inventory compliance status.

### PICCS

Contact supplier for inventory compliance status.

### AIIC

Contact supplier for inventory compliance status.

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## 16. Other information

### NFPA

Health hazards 0

Flammability 0

Instability 0

Special hazards -

### HMIS

Health hazards 0

Flammability 0

Physical hazards 0

Personal protection X

## Key or legend to abbreviations and acronyms used in the safety data sheet

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Maximum limit value

Sk\*

Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act



# SAFETY DATA SHEET

TRC-H294197-25MG - (R/S)- $\delta$ -Hexalactone-d6

Revision date 18-Nov-2024

U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 18-Nov-2024

Revision Note No information available.

## Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**