

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 23-Jun-2022

Revision Number 1

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

| 1.1. Product identifi | ier |
|-----------------------|-----|
|-----------------------|-----|

| Product Code(s) | TRC-D230275-100MG |
|-----------------|-----------------------|
| Product Name | Dehydro Levetiracetam |

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

| E-mail address | sds-request@lgcgroup.com |
|---|--|
| For further information, please contact | _ |
| Web : www.lgcstandards.com | |
| LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com | |
| <u>Supplier</u> | |
| 1.3. Details of the supplier of the saf | ety data sheet |
| Uses advised against | No information available |
| Recommended use | Laboratory use |
| Molecular weight | 168.19 |
| Formula | C8 H12 N2 O2 |
| Pure substance/mixture | Substance |
| Chemical name | (2Z)-2-(2-Oxopyrrolidin-1-yl)but-2-enamide |
| CAS No | 358629-47-7 |
| EC No | 861-080-8 |



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1.4. 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 +1 703-741-5970

| Emergency Telephone - §45 - (EC)1 | 272/2008 |
|-----------------------------------|---|
| Europe | 112 |
| Austria | No information available |
| Bulgaria | |
| Croatia | |
| Cyprus | |
| Czech Republic | |
| Denmark | |
| France | |
| Hungary | |
| Ireland | |
| Italy | |
| Lithuania | |
| Luxembourg | (+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English. |
| Netherlands | |
| Norway | |
| Portugal | |
| Romania | |
| Slovakia | |
| Slovenia | |
| Spain | |
| Sweden | |
| Switzerland | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| Regulation (EC) No 1272/2008 | |
|-----------------------------------|---------------------|
| Acute toxicity - Oral | Category 4 - (H302) |
| Serious eye damage/eye irritation | Category 2 - (H319) |

2.2. Label elements

Contains (2Z)-2-(2-Oxopyrrolidin-1-yl)but-2-enamide



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Signal word Warning

Hazard statements H302 - Harmful if swallowed H319 - Causes serious eye irritation

Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear eye protection/ face protection
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P337 + P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

| Chemical name | EU - REACH (1907/2006) - Article 59(1) | EU - REACH (1907/2006) - Endocrine |
|--|--|------------------------------------|
| | - Candidate List of Substances of Very | Disruptor Assessment List of |
| | High Concern (SVHC) for Authorisation | Substances |
| (2Z)-2-(2-Oxopyrrolidin-1-yl)but-2-enamide | - | - |

SECTION 3: Composition/information on ingredients

3.1 Substances

| Chemical name | Weight-% | REACH registration number | EC No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--|----------|------------------------------|-----------|--|--|----------|-------------------------|
| (2Z)-2-(2-Oxopyrroli din-1-yl)but-2-enami de | | - | 861-080-8 | Acute Tox. 4 (H302) Eye Irrit. 2 (H319) | | | |



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| | 358629-47-7 | | | | | | | |
|--|-------------|--|--|--|--|--|--|--|
|--|-------------|--|--|--|--|--|--|--|

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| - | |
|-------------------------------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |
| 4.2. Most important symptoms and | effects, both acute and delayed |
| Symptoms | May cause redness and tearing of the eyes. Burning sensation. |
| 4.3. Indication of any immediate me | edical attention and special treatment needed |
| Note to doctors | Treat symptomatically. |
| | |

SECTION 5: Firefighting measures

5.1. Extinguishing media

| 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. |



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| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
|--|--|
| 5.2. Special hazards arising from th | e substance or mixture |
| Specific hazards arising from the chemical | No information available. |
| 5.3. Advice for firefighters | |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. **Personal precautions** Other information Refer to protective measures listed in Sections 7 and 8. Use personal protection recommended in Section 8. For emergency responders 6.2. Environmental precautions **Environmental precautions** See Section 12 for additional Ecological Information. 6.3. Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so. Take up mechanically, placing in appropriate containers for disposal. Methods for cleaning up Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. 6.4. Reference to other sections **Reference to other sections** See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.



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| General hygiene consideratio | ns 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. |
|--------------------------------|--|
| 7.2. Conditions for safe stora | ge, 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. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. |

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. 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.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

| Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC) | No information available. No information available. |
|---|---|
| 8.2. Exposure controls | |
| Personal protective equipment | |
| Eye/face protection | Avoid contact with eyes. Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields. |
| Hand protection | Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves. Wear protective butyl rubber gloves. |



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

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical a Physical state Appearance Colour Odour Odour threshold | nd chemical properties Solid Solid white Odourless. No information available | |
|--|---|--------------------------|
| Property_ | Values | Remarks • Method |
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling | No data available | None known |
| range | | |
| Flammability | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive | No data available | |
| limits | | |
| Lower flammability or explosive | No data available | |
| limits | | |
| Flash point | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |
| рН | No data available | None known |
| pH (as aqueous solution) | No data available | No information available |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | Methanol, Chloroform, slightly soluble | |
| Partition coefficient | No data available | None known |
| Vapour pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Relative vapour density | No data available | None known |
| | | |



Molecular formula

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| Particle characteristics Particle Size Particle Size Distribution | No information available No information available |
|---|--|
| 9.2. Other information | |
| Molecular weight | 168.19 |

C8 H12 N2 O2

9.2.1. Information with regards to physical hazard classes Not applicable

| 9.2.2. Other safety characteristics No information available | | |
|---|---|--|
| SECTION 10: Stability and | reactivity | |
| 10.1. Reactivity | | |
| Reactivity | No information available. | |
| 10.2. Chemical stability | | |
| Stability | Stable under normal conditions. | |
| Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None. | | |
| 10.3. Possibility of hazardous reactions | | |
| Possibility of hazardous reactions | None under normal processing. | |
| 10.4. Conditions to avoid | | |
| Conditions to avoid | None known based on information supplied. | |
| 10.5. Incompatible materials | | |
| Incompatible materials | None known based on information supplied. | |
| Hazardous decomposition products None known based on information supplied. | | |
| SECTION 11: Toxicological information | | |

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure



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| 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. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. | |
| 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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components). | |
| Symptoms related to the physical, chemical and toxicological characteristics | | |
| Symptoms | May cause redness and tearing of the eyes. | |
| Numerical measures of toxicity | | |

Acute toxicity

| Delayed and immediate effects as well as chronic effects from short and long-term exposure | | |
|--|--|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. | |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye irritation. | |
| Respiratory or skin sensitisation | No information available. | |
| Germ cell mutagenicity | No information available. | |
| Carcinogenicity | No information available. | |
| Reproductive toxicity | No information available. | |



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| STOT - single exposure | No information available. | |
| STOT - repeated exposure | No information available. | |
| Aspiration hazard | No information available. | |
| 11.2. Information on other hazards | <u>8</u> | |
| 11.2.1. Endocrine disrupting properties | | |
| Endocrine disrupting properties | No information available. | |
| 11.2.2. Other information | | |
| Other adverse effects | No information available. | |
| SECTION 12: Ecological in | nformation | |
| 12.1. Toxicity | | |
| Ecotoxicity | The environmental impact of this product has not been fully investigated. | |
| 12.2. Persistence and degradability | <u>y</u> | |
| Persistence and degradability | No information available. | |
| 12.3. Bioaccumulative potential | | |
| Bioaccumulation | No information available. | |
| 12.4. Mobility in soil | | |
| Mobility in soil | No information available. | |
| 12.5. Results of PBT and vPvB assessment | | |
| PBT and vPvB assessment | This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). | |
| 12.6. Endocrine disrupting properties | | |



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Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment 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. |

SECTION 14: Transport information

IATA

| 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards | Not regulated Not regulated Not regulated Not regulated Not applicable |
|---|---|
| 14.6 Special precautions for user Special Provisions | None |
| IMDG 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Marine pollutant 14.6 Special precautions for user Special Provisions 14.7 Maritime transport in bulk according to IMO instruments | Not regulated Not regulated Not regulated Not regulated Not applicable None No information available No information available |
| RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user | Not regulated Not regulated Not regulated Not regulated Not applicable |



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| None |
|----------------|
| |
| Not regulated |
| Not regulated |
| Not regulated |
| Not regulated |
| Not applicable |
| |
| None |
| |

SECTION 15: Regulatory information

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

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650) . Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194,



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item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

| International Inventories | |
|---------------------------|--|
| TSCA | Contact supplier for inventory compliance status |
| 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

15.2. Chemical safety assessment



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Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed H319 - Causes serious eye irritation

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
|---------|-----------------------------|------|----------------------------------|
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | | | |
|---|--------------------|--|--|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used | | |
| Acute oral toxicity | Calculation method | | |
| Acute dermal toxicity | Calculation method | | |
| Acute inhalation toxicity - gas | Calculation method | | |
| Acute inhalation toxicity - Vapour | Calculation method | | |
| Acute inhalation toxicity - dust/mist | Calculation method | | |
| Skin corrosion/irritation | Calculation method | | |
| Serious eye damage/eye irritation | Calculation method | | |
| Respiratory sensitisation | Calculation method | | |
| Skin sensitisation | Calculation method | | |
| Mutagenicity | Calculation method | | |
| Carcinogenicity | Calculation method | | |
| Reproductive toxicity | Calculation method | | |
| STOT - single exposure | Calculation method | | |
| STOT - repeated exposure | Calculation method | | |
| Acute aquatic toxicity | Calculation method | | |
| Chronic aquatic toxicity | Calculation method | | |
| Aspiration hazard | Calculation method | | |
| Ozone | Calculation method | | |

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))



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

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 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