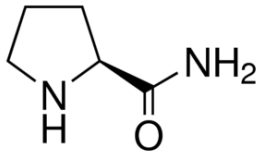
# L-PROLINAMIDE

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
□□ □□□□: 8/8/2019 □□ □□□□: 7/17/2026 □□ □□: 8/8/2019 □□: 1.0

## □□ 1: □□□□□ □□□ □□ □□

### 1.1. □□□□

| | | |
|---|---|---|
| □□ □□ | : | □□ |
| □□□ | : | L-PROLINAMIDE |
| EC □□ | : | 231-397-0 |
| CAS □□ | : | 7531-52-4 |
| □□ □□ | : | 05469 |
| □□ □□ | : | Heterocyclic organic compound |
| □□□ | : | C5H10N2O |
| □□ □□ | : |  |
| □□□ | : | (S)-Pyrrolidine-2-carboxamide, (S)-2-(Aminocarbonyl)pyrrolidine |



### 1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

| | | |
|---|---|---|
| □□/□□□ □□ □□ | : | Industrial<br>For professional use only |
| □□□□/□□□□ □□ | : | Laboratory chemicals<br>□□□ □□ |

### 1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai
INDIA
T +91 22 6663 6663, F +91 22 6663 6699
info@lobachemie.com, www.lobachemie.com

### 1.4. □□□□□□

| | | |
|---|---|---|
| □□ □□ □□ | : | + 91 22 6663 6663 (9:00am - 6:00 pm) |

## □□ 2: □□□·□□□

### 2.1. □□□·□□□ □□

**Regulation (EC) No.1272/2008 [CLP]□ □□ □□**

□□□□ □□

□□□□□, □□ □□ □ □□□□□□□

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. □□□□□□□ □□□ □□□□ □□

**□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]**

□□ □□ □□

### 2.3. □□ □□

□□ □□

# L-PROLINAMIDE

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□

## □□ 3: □□□□□ □□ □ □□□

### 3.1. □□□□

□□ □□ : □□□□□□

| □□ | □□□□ | % |
|---|---|---|
| L-PROLINAMIDE | CAS □□: 7531-52-4<br>EC □□: 231-397-0 | 100 |

## □□ 4: □□□□□□

### 4.1. □□□□ □□

□□ □□ □□ : If you feel unwell, seek medical advice.

□□□□ □ : □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□. If experiencing respiratory symptoms: Call a poison center or a doctor.

□□□ □□□□ □ : Wash skin with plenty of water. □□ □□□ □□□□: □□□□ □□/□□□ □□□□.

□□ □□□□ □ : □□□□ □□□□□□ □□□□□. □□ □□□□. □□ □□□ □□□□: □□□□ □□/□□□ □□□□. □□□□ □ □□ □□ □□ □□□□.

□□□ □ : Rinse mouth out with water. If you feel unwell, seek medical advice. □□□□ □□□ □□□□(□□)□ □□□ □□□□.

Self protection of the first-aider : □□ □□□□ □□□ □□□□ □□□□□, □□□□□□ □□□ □□□, □□, □□□ □□ □□□□ □□□□ □□ □. □□□□□ □□□ □□□ □□□□ □□ □□ □□□□ □□□□□ □□□□□.

### 4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□ : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.

□□ □□ □ □□/□□ : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

□ □□ □ □□/□□ : None under normal conditions. Dust from this product may cause eye irritation.

□□ □ □□/□□ : None under normal conditions.

### 4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

## □□ 5: □□·□□□ □□□□

### 5.1. □□□ □□□

□□□ □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.

□□□□ □□□ : Do not use a heavy water stream.

### 5.2. □□□□□□□ □□□ □□ □□□

□□ □□ : No fire hazard.

□□ □□ : No direct explosion hazard.

□□ □ □□□ □□□ □□ : Toxic fumes may be released.

### 5.3. □□□□ □□□□ □ □□□□

□□ □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

□□ □□ □ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

물질안전보건자료
규정 (EU) 2020/878에 의해 수정된 REACH 규정 (EC) 1907/2006에 따름

섹션 6: 누출사고시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치사항 및 보호구

일반 조치 : 제품이 하수구 또는 상하수도로 들어갈 경우 당국에 통보. 물질손상을 방지하기 위해 누출물을 흡수시키시오.

비응급 대응 요원

보호 장비 : Wear recommended personal protective equipment.
응급 조치 : Ventilate spillage area. Avoid contact with skin, eyes and clothing.
응급 대응 요원

보호 장비 : Do not attempt to take action without suitable protective equipment. 적절한 개인 보호구를 착용하시오. 보 다 자세한 정보는 섹션 8: "노출방지 및 개인보호구"를 참조하시오.

응급 조치 : Evacuate unnecessary personnel.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오.

6.3. 정화 또는 제거 방법

봉쇄용 : Using a clean shovel, put the material in a dry container and cover without compressing it. 세척 방법 : Mechanically recover the product. Clean up immediately by sweeping or vacuum.
그 밖의 참고사항 : Dispose of materials or solid residues at an authorized site.

6.4. 기타 항목 참조

For further information refer to section 13.

섹션 7: 취급 및 저장방법

7.1. 안전취급요령

취급 시 발생가능한 추가 위험 : 일반적인 사용 조건에서는 위험한 것으로 간주되지 않음.

안전취급요령 : Ensure good ventilation of the work station. 개인 보호구를 착용하시오. 피부 및 눈과의 접촉을 피하시오. 위생 조치 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 이 제품을 사용할 때에는 먹거나, 마시거나 흡연하지 마시오. Always wash hands
after handling the product.

7.2. 피해야할 조건을 포함한 안전한 저장 방법

기술적 조치 : Keep in a cool, well-ventilated place away from heat.
보관 조건 : 환기가 잘 되는 곳에 보관하시오. 용기를 단단히 밀폐하시오.

포장재 : Always store product in container of same material as original container.

7.3. 특정 최종 사용

자료 없음

섹션 8: 노출방지 및 개인보호구

8.1. 제어 매개 변수

자료 없음

8.2. 노출방지

적절한 공학적 관리
적절한 공학적 관리:

Ensure good ventilation of the work station.

개인 보호구
개인 보호구:

Wear recommended personal protective equipment.

□□ □□ □□ □□:



□ □ □□ □□□

□ □□:

Chemical goggles or safety glasses

**Skin protection**

□□ □□:

Wear a mask

□ □□:

Protective gloves

□□□ □□

□□□ □□:

Wear appropriate mask

□□ □□ □□

□□ □□ □□:

□□□□ □□□□ □□□.

## □□ 9: □□□□□ □□

### 9.1. □□□□ □□□□□ □□□ □□ □□

| | | |
|---|---|---|
| □□□ □□ | : | □□ |
| □□ | : | White to yellow. |
| □□ | : | Crystalline powder or crystals. Chunks. |
| □□□ | : | 114.15 g/mol |
| □□ | : | □□□□ |
| □□ □□ | : | □□□□ |
| □□□ | : | 95 – 97 °C |
| □□□ | : | □□□□ |
| □□ □□□□ □□□ □□ | : | □□□□ |
| □□□ | : | □□□ |
| □□ □□□ | : | □□□□ |
| □□ □□□ | : | □□□□ |
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| □□□□ □□ | : | □□□□ |
| □□ □□ | : | □□□□ |
| pH | : | □□□□ |
| pH □□ | : | □□□□ |
| □□(□□□) | : | □□□□ |
| □□□ | : | □: Soluble |
| Partition coefficient n-octanol/water (Log Kow) | : | □□□□ |
| □□□ | : | □□□□ |
| 50°C□□□ □□□ | : | □□□□ |
| □□ | : | □□□□ |
| □□ | : | □□□□ |
| 20°C□□□ □□ □□ □□ | : | □□□□ |
| Particle size | : | □□□□ |

### 9.2. □ □□ □□□□

□□ □□

## □□ 10: □□□ □ □□□

### 10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. □□□ □□□

Stable under normal conditions.

### 10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

### 10.4. □□□ □ □□

Air contact. □□□□. Moisture.

### 10.5. □□□ □ □□

□□ □□

### 10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## □□ 11: □□□ □□ □□

### 11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

| | | |
|---|---|---|
| □□ □□ (□□) | : | □□□□ □□ |
| □□ □□ (□□) | : | □□□□ □□ |
| □□ □□ (□□) | : | □□□□ □□ |
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| □□□□ | : | □□□□ □□ |
| □□ □□□□ □□ (1□ □□) | : | □□□□ □□ |
| □□ □□□□ □□ (□□ □□) | : | □□□□ □□ |
| □□ □□□ | : | □□□□ □□ |

| L-PROLINAMIDE (7531-52-4) | |
|---|---|
| □□(□□□) | □□□□ |

### 11.2. □□ □□ □□

□□ □□

## □□ 12: □□□ □□□ □□

### 12.1. □□

| | | |
|---|---|---|
| □□□ - □□ | : | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| □□ □□□□ □□□ | : | □□□□ □□ |
| □□ □□□□ □□□ | : | □□□□ □□ |

### 12.2. □□□ □ □□□

| L-PROLINAMIDE (7531-52-4) | |
|---|---|
| □□□ □ □□□ | □□ □□ □□ |

### 12.3. □□ □□□

□□ □□

### 12.4. □□ □□□

□□ □□

### 12.5. PBT □ vPvB □□ □□

□□ □□

### 12.6. □□□ □□ □□

□□ □□

### 12.7. □□ □□ □□

□□ □□

## □□ 13: □□□ □□□□

### 13.1. □□□ □□□

| | | |
|---|---|---|
| □□ □□(□□□) | : | Disposal must be done according to official regulations. |
| □□□ □□□ | : | Dispose of contents/container in accordance with licensed collector’s sorting instructions. |
| □□ □□ □□ □□ | : | Disposal must be done according to official regulations. |
| □□/□□ □□ □□□□ | : | Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. |
| □□ □□ | : | Do not re-use empty containers. |
| Ecological waste information | : | The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

## □□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

### 14.1. UN □□ □□ ID □□

□□ □□□□ □□□□

### 14.2. UN □□ □□□

| | | |
|---|---|---|
| □□ □□□ (ADR) | : | Not regulated |
| □□ □□□ (IMDG) | : | Not regulated |
| □□ □□□ (IATA) | : | Not regulated |
| □□ □□□ (ADN) | : | Not regulated |
| □□ □□□ (RID) | : | Not regulated |

### 14.3. □□□□□ □□□ □□

**ADR**

| | | |
|---|---|---|
| □□□□□ □□□ □□ (ADR) | : | Not regulated |

**IMDG**

| | | |
|---|---|---|
| □□□□□ □□□ □□ (IMDG) | : | Not regulated |

**IATA**

| | | |
|---|---|---|
| □□□□□ □□□ □□ (IATA) | : | Not regulated |

**ADN**

| | | |
|---|---|---|
| □□□□□ □□□ □□ (ADN) | : | Not regulated |

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RID

운송에서의 위험성 등급 (RID) : Not regulated

14.4. 용기등급

용기 등급 (ADR) : Not regulated 용기 등급(IMDG) : Not regulated 용기 등급 (IATA) : Not regulated 포장 그룹(ADN) : Not regulated 용기 등급(RID) : Not regulated

14.5. 환경 유해성
그 밖의 참고사항 : 가용 추가 정보 없음

14.6. 사용자를 위한 특별 주의사항
내륙 수송

Not regulated

해상 운송

Not regulated

항공 운송

Not regulated

국내 수로 운송

Not regulated

철도 수송

Not regulated

14.7. 국제해사기구(IMO)에 따른 대량 해상 운송

해당없음

섹션 15: 법적 규제현황

15.1. 안전, 보건 및 환경과 관련하여 단일물질 또는 혼합물에 대한 특별 규정/법규 EU 규정

REACH 부속서 XVII (제한 목록)
REACH 부속서 XVII에 등재되지 않음

REACH 부속서 XIV (승인 목록)
REACH 부속서 XIV (허가 목록)에 등재되지 않음
REACH 후보 물질 목록 (SVHC)
REACH 후보 물질 목록에 등재되지 않음

PIC 규정 (사전통보승인)
PIC 목록에 등재되지 않음 (규정 EU 649/2012)
POP 규정 (잔류성 유기 오염물질)
POP 목록에 등재되지 않음 (규정 EU 2019/1021)
Ozone Regulation (2024/590)
Not listed on the Ozone Depletion list (Regulation EU 2024/590) 이중용도 규정(428/2009)
Not listed on the COUNCIL REGULATION (EC) of dual-use items. 폭발 전구물질 규정 (2019/1148)
Not listed on the Explosives Precursors list (EU)

### □□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

### □□ □□

### □□

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

### □□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.
SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

### □□□

□□□ □□ □□ : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

## 15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

## □□ 16: □ □□ □□□□

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| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | □□ □□ □ |
| BOD | Biochemical oxygen demand (BOD) |

| □□ □ □□□□: | |
|---|---|
| CAS □□ | □□□□ □□ □□ □□(CAS) |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| COD | □□□ □□ □□□ |
| CSA | □□ □□ □□□ □□ |
| DMEL | Derived Minimal Effect level |
| DNEL | □□ □□□ □□ |
| EC □□ | □□ □□□ □□ |
| EC50 | Median effective concentration |
| ED | □□□ □□□□ |
| EN | □□ □□ |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| MAK | maximum workplace concentration |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | □□□ □□ □□ |
| OSHA | Occupational Safety & Health Administration |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | □□ □□□ □□ |
| PPE | □□ □□□ |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | □□□□□□□□ |
| STP | Sewage treatment plant |
| TF | □□□ □□ |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TWA | Time Weighted Average |
| COV | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |

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| UFI | □□ □□ □□□ |

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