

SAFETY DATA SHEET

| | |
|-----------------------|------------|
| Version: | 1.2 |
| Revision Date: | 2023-01-26 |
| Print Date: | 2023-01-26 |

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

1.1 Product identifiers

| | |
|-------------------------|---|
| Product Number: | A0191 |
| Product name: | N-(2-Aminoethyl)biotinamide hydrochloride |
| CAS Registry Nr: | 111822-45-8 |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

| | |
|-----------------|---------------------------|
| Company: | Chemodex AG |
| | CH - 9015 St. Gallen |
| | Switzerland, Europe |
| | Tel: +41 71 244 48 25 |
| | Fax: +41 71 244 48 26 |
| | Email: info@chemodex.com |
| | Website: www.chemodex.com |

1.4 Emergency telephone number

| | |
|-------------------------|-------------------------|
| Tox Info Suisse: | 145 or +41 44 251 51 51 |
|-------------------------|-------------------------|

SECTION 2: Hazards identification


2.1 Classification of the substance or mixture

Classification in accordance with (EC) No. 1272/2008 [EU-GHS/CLP]

| | |
|--|------|
| Harmful if swallowed (Category 4). | H302 |
| Skin irritation (Category 2). | H315 |
| Causes serious eye irritation (Category 2A). | H319 |
| May cause respiratory irritation (Category 3). | H335 |

2.2 Label elements

Labelling according Regulation (EC) No. 1272/2008

| | |
|-------------|---|
| Pictogram |  |
| Signal word | Warning |

Hazard statement(s)

| | |
|------|----------------------------------|
| H302 | Harmful if swallowed. . |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation |

Precautionary statement(s)

| | |
|----------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P330 | Rinse mouth. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to in accordance with local regulation. |

2.3 Other hazards

| | |
|---------------------------------|------|
| Supplemental Hazard Statements: | none |
|---------------------------------|------|

SECTION 3: Composition/information on ingredients

3.1 Substances

| | |
|--------------------------|---------------|
| Synonyms: | Neurobiotin |
| Mol. Formula: | C12H23CIN4O2S |
| Mol. Weight: | 322.85 g/mol |
| CAS Registry No.: | 111822-45-8 |

| Component | Classification | Concentration |
|--|--|---------------|
| N-(2-Aminoethyl)biotinamide hydrochloride CAS-No. 111822-45-8 | Acute toxicity, oral 4 (H302) Skin corrosion/irritation 2 (H315) Serious eye damage/eye irritation 2A (H319) Specific target organ toxicity, single exposure;Respiratory system 3 (H335) | <=100% |

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products No data available

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. For precautions see section 2.2.

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Inert atmosphere, Store in freezer, under -20°C.

7.3 Specific end use(s)

Use in laboratories.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye/face protection

Goggles (European standard - EN 166).

Hand Protection

Protective gloves

Glove material Nitrile rubber Neopren Natural rubber PVC

Breakthrough time see manufactures recommendations

Glove thickness -

EU standard EN 374

Glove comments (minimum requirment)

Skin and body protection

Long sleeved clothing.

Inspect gloves before use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

Respiratory protection

No protective equipment is needed under normal use conditions.

Large scale/emergency use

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Small scale/Laboratory use

Maintain adequate ventilation

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|----|--|---------------------------------|
| a) | Appearance: | Solid |
| b) | Odour: | No data available |
| c) | Odour Threshold: | No data available |
| d) | pH: | No data available |
| e) | Melting point/freezing point: | |
| f) | Boiling point | |
| g) | Flash point: | No data available |
| h) | Evaporation rate: | No data available |
| i) | Flammability (solid, gas): | No data available |
| j) | Upper/lower flammability or explosive limits: | No data available |
| k) | Vapour pressure: | No data available |
| l) | Vapour density: | No data available |
| m) | Relative density: | |
| n) | Solubility: | Soluble in acetone or methanol. |
| o) | Partition coefficient (n-octanol/water): | No data available |
| p) | Auto-ignition temperature: | No data available |
| q) | Decomposition temperature: | No data available |
| r) | Viscosity: | No data available |
| s) | Explosive properties: | No data available |
| t) | Oxidizing properties: | No data available |

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, oxides of sulfur.

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 sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

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

No data available for assessment.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 - 14.5 UN number and proper shipping name, Transport hazard class(es), Transport hazard class(es), Environmental hazards

ADR/RID

| | | | | | |
|-----------------------|---|--------|--|----------------|---------------------|
| UN number: | | Class: | | Packing group: | Not dangerous goods |
| Proper shipping name: | N-(2-Aminoethyl)biotinamide hydrochloride | | | | |
| Environmental hazards | No data available | | | | |

IMDG

| | | | | | |
|-----------------------|---|--------|--|----------------|---------------------|
| UN number: | | Class: | | Packing group: | Not dangerous goods |
| Proper shipping name: | N-(2-Aminoethyl)biotinamide hydrochloride | | | | |
| Environmental hazards | No data available | | | | |

IATA

| | | | | | |
|-----------------------|---|--------|--|----------------|---------------------|
| UN number: | | Class: | | Packing group: | Not dangerous goods |
| Proper shipping name: | N-(2-Aminoethyl)biotinamide hydrochloride | | | | |
| Environmental hazards | No data available | | | | |

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

No special precautions required.

14.7 Further information

No data available

SECTION 15: Regulatory information

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

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

No data available

15.2 Chemical Safety Assessment

No Chemical Safety Assessment.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

| | |
|--|------|
| Harmful if swallowed (Category 4). | H302 |
| Skin irritation (Category 2). | H315 |
| Causes serious eye irritation (Category 2A). | H319 |
| May cause respiratory irritation (Category 3). | H335 |

Further information

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The above information is believed to be correct but shall not be taken as being all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemodex Ltd. and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemodex.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.