Material safety data sheet

According to EU Regulation 1907/2006 in the current version

Allantoin

1. Identification of the substance/mixture and company

Trade name:	Allantoin
I.N.C.I.	Allantoin
CAS No. :	97-59-6
Ec Number	202-592-8
Registration Number	01-2119953242-43-0004
EINESCS No. :	0000
REACH pre-registration No. :	/
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	**Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).
Hazard classification and indication:

2.2 Label elements

Hazard pictograms: --
Signal words: --
Hazard statements: --
Precautionary statements: --
This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

2.3. Other hazards
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%

3. Declaration of ingredients

3.1. Substances
The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.

4. First aid measures

4.1 Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2 Main symptoms and effects, both acute and delayed
No episodes of damage to health ascribable to the product have been reported.

4.3 Indication to consult a physician immediately or any special treatments
No data available

5. Fire fighting measures

5.1 Means of extinction

Suitbale extinguishing equipment
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
Unsuitable extinguishing equipment
None in particular.

5.2 Special hazards arising from the substance or mixture

Hazards caused by exposure in the event of fire
Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3 Recommendations for fire-fighters

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137)

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.3 Methods and materials for containment and remediation

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Allantoin

7. Handling and storage

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3 Specific end uses
No data available

8. Exposure controls / personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION
None required.

SKIN PROTECTION
None required.

EYE PROTECTION
None required.

RESPIRATORY PROTECTION
None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Allantoin

9.1 Information on physical and chemical properties

Appearance: powder
Colour: white
Odour: odourless
Odour threshold: Not available
pH: 4
Melting point / freezing point: 229 °C
Initial boiling point: Not available
Boiling range: Not available
Flash point: 420 °C
Evaporation rate: Not available
Flammability (solid, gas): Not available
Lower inflammability limit: Not available
Upper inflammability limit: Not available
Lower explosive limit: Not available
Upper explosive limit: Not available
Vapour pressure < 0.001 Pa
Vapour density: Not available
Relative density: 1,71 g/cm3
Solubility: Slightly soluble in water.
Partition coefficient: n-octanol/water -3,14
Auto-ignition temperature: Not available
Decomposition temperature: 229°C
Viscosity: Not available
Explosive properties: not applicable
Oxidising properties: not applicable

9.2 Other information
Molecular weight 158,12

10. Stability and reactivity

10.1 Responsiveness
There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability
The product is stable in normal conditions of use and storage.

10.3 Possibility of dangerous reactions
The powders are potentially explosive when mixed with air.

10.4 Conditions to avoid
Avoid environmental dust build-up.

10.5 Incompatible materials
Information not available

10.6 Hazardous decomposition products
In decomposition develops: carbon oxides.

11. Toxicological information

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Allantoin

11.1 Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information
Information not available

Information on likely routes of exposure
Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Information not available

Interactive effects
Information not available

ACUTE TOXICITY
ALLANTOIN
LD50 (Oral) > 5000 mg/kg rat
LD50 (Dermal) > 5000 mg/kg rabbit
SKIN CORROSION / IRRITATION
Does not meet the classification criteria for this hazard class
SERIOUS EYE DAMAGE / IRRITATION
Does not meet the classification criteria for this hazard class
RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class
GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class
CARCINOGENICITY
Does not meet the classification criteria for this hazard class
REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class
STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class
STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class
ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity
ALLANTOIN
LC50 - for Fish > 5000 mg/kg Brachyanio rerio
EC50 - for Crustacea > 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus

12.2 Persistence and degradability
ALLANTOIN
Rapidly degradable

12.3 Bioaccumulation potential
ALLANTOIN
Partition coefficient: n-octanol/water 3,14

12.4 Ground mobility
No data available

12.5 Results of PBT and vPvB assessment
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6 Other adverse effects
No data available

13. Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Solid residues may be suitable for disposal in an authorised landfill site.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1 UN number
Not applicable

14.2 UN shipping name
Not applicable

14.3 Class of danger for transport
Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards
Not applicable

14.6 Special precautions for users
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
Information not relevant

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Allantoin

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture
Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
None

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Information not available

15.2 Chemical safety assessment.
Has not been performed / is not yet available a chemical safety assessment for the substance.

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the carriage of Dangerous goods by Road
CAS NUMBER: Chemical Abstract Service Number
CE50: Effective concentration (required to induce a 50% effect)
CE NUMBER: Identifier in ESIS (European archive of existing substances)
CLP: EC Regulation 1272/2008
DNEL: Derived No Effect Level
EmS: Emergency Schedule
GHS: Globally Harmonized System of classification and labeling of chemicals
IATA DGR: International Air Transport Association Dangerous Goods Regulation
IC50: Immobilization Concentration 50%
IMDG: International Maritime Code for dangerous goods
IMO: International Maritime Organization
INDEX NUMBER: Identifier in Annex VI of CLP
LC50: Lethal Concentration 50%
LD50: Lethal dose 50%
OEL: Occupational Exposure Level
PBT: Persistent bioaccumulative and toxic as REACH Regulation
PEC: Predicted environmental Concentration
PEL: Predicted exposure level
PNEC: Predicted no effect concentration

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Allantoin

REACH: EC Regulation 1907/2006
RID: Regulation concerning the international transport of dangerous goods by train
TLV: Threshold Limit Value
TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
TWA STEL: Short-term exposure limit
TWA: Time-weighted average exposure limit
VOC: Volatile organic Compounds
vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
WGK: Water hazard classes (German).

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.