



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 15.07.2017
Version 1

ALLANTOIN

1. Identification of the substance/preparation and the company

Trade name: Allantoin
Utilization: Ingredient for personal care products
Supplier company identification: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: numar national pentru cazuri de urgenta: 021 3183606 Institutul de Sanatate Publica Bucuresti. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture

2.3 Other hazards: None known

This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements. On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

3. Composition / Information on ingredients

3.1. Substances

Contains: The full wording of hazard (H) phrases is given in section 16 of the sheet.

Identification: ALLANTOIN Conc. % 99

CAS. 97-59-6 99

EC. 202-592-8

3.2. Mixtures --

4. First Aid

4.1. Description of first aid measures.

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

4.2. Most important symptoms and effects, both acute and delayed.

No episodes of damage to health ascribable to the product have been reported.

4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

5. Fire-fighting Measures

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT



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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. Advice for firefighters.

GENERAL INFORMATION

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 equipment 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.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

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.

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 use(s).

Information not available other than stated at section 1 of this sheet.

8. Exposure Controls and Personal Protection

8.1. Control parameters.

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During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for



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inert particulate 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.

Predicted no-effect concentration - PNEC. Normal value in fresh water 1 mg/l Normal value in marine water 0,1 mg/l Normal value for fresh water sediment 0,85 mg/kg Normal value for marine water sediment 0,0085 mg/kg Normal value for water, intermittent release 10 mg/l Normal value of STP microorganisms 10000 mg/l Normal value for the terrestrial compartment 0,256 mg/kg

8.2. Exposure controls.

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

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of 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

9.1. Information on basic physical and chemical properties.

Appearance powder

Colour white

Odour odourless

Odour threshold. Not available.

pH. 4

Melting point / freezing point. 230 °C.

Initial boiling point. Not applicable.

Boiling range. Not available.

Flash point. Not applicable.

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. < 0,000010 hPa

Vapour density non applicabile

Relative density. 0,700 Kg/l

Solubility partially soluble in water

Partition coefficient: n-octanol/water - 3,14

Auto-ignition temperature. Not available.

Decomposition temperature. 230°C

Viscosity Not available.

Explosive properties not applicable

Oxidising properties not applicable

9.2. Other information.

Information not available



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Information not available.

10. Stability and Reactivity

10.1. Reactivity.

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 hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Acids, basis.

10.6. Hazardous decomposition products.

Carbon oxides, nitrogen oxides.

11. Toxicological Information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects.

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LD50 (Oral).> 10000 mg/kg ratto

LD50 (Dermal).> 5000 mg/kg coniglio

12. Ecological Information

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

12.1. Toxicity.

ALLANTOIN LC50 - for Fish. > 5000 mg/kg Danio rerio EC50 - for Crustacea. > 100 mg/L Daphnia magna EC50 - for Algae / Aquatic Plants. > 100 mg/l/72h Desmodesmus subspicatus

12.2. Persistence and degradability

Rapidly biodegradable.

12.3. Bioaccumulative potential.

Partition coefficient: n-octanol/water. 3,14

12.4. Mobility in soil.

Information not 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 greater than 0,1%.

12.6. Other adverse effects.

Information not available.

13. Disposal Considerations



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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

14.1 UN number ADR/RID: - IMDG: - IATA: - Not regulated for transport

14.2 UN proper shipping name

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods

14.3 Transport hazard class(es) ADR/RID: - IMDG: - IATA: -

14.4 Packaging group ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user: For information on handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not defined.

15. Additional Regulatory Information

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

Seveso category. 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). None.

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.

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other Information

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.



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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

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).