

**Safety Data Sheet** according to Regulation 1907/2006/EC**1 Identification of the substance and of the company**

<b>Identification of the substance</b>	ALLANTOIN MEETS USP
<b>Use of the substance</b>	
Function:	Skin protectant agent
Use conditions:	Industrial use
Applications:	Use in manufacture of cosmetics and pharmaceuticals
<b>Company identification</b>	
Company name:	Akema Fine Chemicals S.r.l.
Company address:	Via Puglie 12, 47853 Coriano (RN), Italy
Telephone number:	+39 0541 657077      +39 0541 659297
Fax number:	+39 0541 657134
Competent person:	<a href="mailto:lab@akema.it">lab@akema.it</a>
<b>Emergency telephone</b>	Centro Antiveneni Pavia: +39 0382 24444 (24 h.)

**2 Hazards identification**

<b>Classification</b>	This substance is not classified as dangerous according to Directive 67/548/EC (see Section 15).
<b>Physical hazards</b>	None
<b>Health hazards</b>	None
<b>Environmental hazards</b>	None

**3 Composition/information on ingredients**

<b>Ingredients</b>	<b>%</b>	<b>Classification</b>	<b>CAS n°</b>	<b>EINECS n°</b>
Allantoin	> 99.	/	97-59-6	202-592-8

**4 First aid measures**

<b>Inhalation</b>	Remove to fresh air, seek medical attention in case of complaints.
<b>Skin contact</b>	Remove contaminated clothes. Wash contaminated area with large amounts of water and soap.
<b>Eye contact</b>	Irrigate immediately under running water with eyelids held open for at least 15 minutes. Consult a physician if irritation persists.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Drink water or milk. Never give anything by mouth to an unconscious person. Consult a physician in case of complaints.

## 5 Fire fighting measures

<b>Suitable extinguishing media</b>	Carbon dioxide, foam, dry chemical powder, water spray.
<b>Extinguishing media to avoid</b>	None
<b>Combustion / explosion hazards</b>	None. Avoid to breathe the fumes (see Section 10).
<b>Special protective equipment</b>	Wear suitable protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
<b>Additional advice</b>	Use water spray to cool closed containers at risk from fire and, if possible, remove them from the danger area. Do not discharge contaminated extinguish water into the soil, groundwater or surface water.

## 6 Accidental release measures

<b>Personal precautions</b>	Use suitable personal protective equipment when handling, as recommended in Section 8.
<b>Environmental precautions</b>	Prevent contamination of soil, surface water, groundwater or sewer system.
<b>Measures for cleaning up</b>	Recover if possible. Sweep up and collect in a suitable container for disposal. Wash contaminated surfaces by water. Treat recovered material as prescribed in Section 13.

## 7 Handling and storage

<b>Handling</b>	Use with adequate ventilation. Do not breathe vapors and prevent aerosol generation. Wear personal protective equipment recommended in Section 8.
<b>Storage</b>	Keep container tightly closed. Store at room temperature in a cool well ventilated area.

## 8 Exposure control / personal protection

<b>General safety and hygiene measures</b>	Observe the usual precautionary measures in handling the chemicals to keep a minimal exposure. Handle in accordance with good industrial hygiene and safety practices.
<b>Exposure limit values</b>	None
<b>Occupational exposure controls</b>	Ensure good ventilation at the workplace.
<b>Respiratory protection</b>	Use face mask with medium efficiency for solid and liquid particles (EN 149, Type FFP2) when performing operations involving exposure to dusts of the product.
<b>Hand protection</b>	Not required.
<b>Eye protection</b>	Not required.
<b>Skin and body protection</b>	Wear light protective and closed working clothing.
<b>Environmental exposure control</b>	Do not flush into surface water or sanitary sewer system.

## 9 Physical and chemical data

<b>Appearance</b>	White fine powder
<b>Odour</b>	Odourless
<b>pH (0.5% in water)</b>	3.5 – 6.5
<b>Boiling point</b>	Not applicable
<b>Melting point</b>	About 230°C
<b>Decomposition temperature</b>	about 230°C
<b>Flash point / flammability</b>	Not combustible
<b>Vapour pressure (20°C)</b>	Not applicable
<b>Vapour density (air = 1)</b>	Not applicable
<b>Apparent specific weight</b>	0.70 g/mL      0.52 g/mL if micronized
<b>% volatile by volume</b>	Negligible
<b>Solubility in water</b>	Slightly soluble

## 10 Stability and reactivity

<b>Stability</b>	Stable if handled and stored as recommended.
<b>Conditions to avoid</b>	None
<b>Materials to avoid</b>	Avoid strong acids.
<b>Hazardous decomposition products</b>	No hazardous decomposition products when stored and handled correctly. Formation of carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), nitrogen oxide, ammonia in the event of fire or during thermal decomposition.

## 11 Toxicological information

<b>Acute oral toxicity (rat)</b>	LD <sub>50</sub> > 5000 mg/kg
<b>Acute dermal toxicity (rabbit)</b>	LD <sub>50</sub> ≥ 5000 mg/kg
<b>Acute inhalation toxicity</b>	No toxic effects known.
<b>Skin irritation (rabbit)</b>	Non-irritating.
<b>Eye irritation (rabbit)</b>	Non-irritating.
<b>Chronical toxicity</b>	No carcinogenic, mutagenic, teratogenic or sensitizing effects known.

## 12 Ecological information

<b>Ecotoxicity</b>	EC <sub>50</sub> (24 h) = 5 mg/L ( <i>Lepomis macrochirus</i> ) EC <sub>50</sub> (24 h) = 5 mg/L ( <i>Oncorhynchus mykiss</i> ) EC <sub>50</sub> (24 h) = 5 mg/L ( <i>Petromyzon marinus</i> )
<b>Persistence and degradability</b>	Biodegradable
<b>Bioaccumulative potential</b>	Low bioaccumulation is expected Log K <sub>ow</sub> = -3.14 BCF = Not available
<b>Other ecological data</b>	BOD = 63.8 mg/g      COD = 240 mg/g

### 13 Disposal considerations

<b>Product disposal</b>	Examine possibilities for re-utilization. Product residues should be packaged, sealed, labelled and disposed of or incinerated in a suitable installation according to relevant local and national regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be assigned and only authorized contractors used.
<b>Package disposal</b>	Uncontaminated packaging can be re-used. Uncleaned empty containers should be treated in the same manner as the content. Where possible recycling is preferred to disposal or incineration.

### 14 Transport information

<b>ADR (road transport)</b>	Not classified as a dangerous good.
<b>RID (rail transport)</b>	Not classified as a dangerous good.
<b>IMDG (sea transport)</b>	Not classified as a dangerous good.
<b>IMDG (air transport)</b>	Not classified as a dangerous good.

### 15 Regulatory information

Classification and labelling have been performed according to Directive 67/548/EC and 1999/45/EC, including amendments and adaptations.

<b>Hazard symbols</b>	None
<b>Risk phrases</b>	None
<b>Safety phrases</b>	None

### 16 Additional information

**Full text of R phrases**

**Full text of S phrases**

**Sources of key data** The content and format of this Safety Data Sheet is in accordance with REACH regulation 1907/2006/EC Annex II. No reference Chemical Safety Report (CSR) is available on the substances contained in the preparation yet. Consistency of data with CSR is considered as far as the information are available.

**Modifications** according to Regulation 1907/2006/EC

**Sources** CIR, NIOSH, RTECS, TSCA, EPA, NLM, PAN, EMEA, ECB, MERCK INDEX

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