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PRODUCT NAME: ALLANTOIN  
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MATERIAL SAFETY DATA SHEET

Section 01 - Product Information

**TKB Trading, LLC**  
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Emergency tel. number: +1 510-922-9027

Trade name: ALLANTOIN  
  
CAS number: 97-59-6  
Synonyms: Product Has No Synonyms  
Primary product use: Raw material for cosmetics  
  
Chemical family: 5-Ureido-Hydantoin

Section 02 - Composition information on hazardous ingredients

Hazardous ingredients:

Component	CAS-no. (Trade secret no.)	Concentration
Particulates Not Otherwise		> 1 %

Regulated (PNOR)

Section 03 - Hazards identification

Emergency overview:

White powder

No odor.

May cause dust explosions.

May cause respiratory irritation.

May cause eye and skin irritation.

Expected Route of entry:

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause skin irritation.

Eye contact: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Not expected to be toxic.

Skin absorption: no

Health effects of exposure:

Particulates Not Otherwise Regulated (PNOR)

Due to small particle size distribution, this product may cause irritation to the respiratory tract and mucous membranes. Proper respiratory protection is recommended.

Known effects on other illnesses: No known effects on other illnesses for this product.

Listed carcinogen:

IARC: No

NIP: No

OSHA: No

Other: No

HMIS:

Health: 1      Flammability: 1      Reactivity: 0      Personal protection: F

Section 04 - First aid measures

After inhalation:

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

Immediately flush skin under running water for at least fifteen minutes. Seek medical attention if irritation or chemical burn is present.

After contact with eyes:

Immediately flush eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek prompt medical attention if redness or irritation occurs.

After ingestion:

If ingested, seek medical assistance immediately.

Advice to doctor / Treatment:

None known.

#### Section 05 - Fire fighting measures

Flashpoint: Not applicable

Lower explosion limit: not tested.

Upper explosion limit: not tested.

Self ignition: No self-ignition below the decomposition temperature.

Ignition temperature: Not applicable

Hazardous combustion products:

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Extinguishing media: foam  
water mist

Special fire fighting procedure:

Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

Unusual fire and explosion hazards: Emits toxic fumes under fire conditions. This product presents no unusual fire or explosion hazards while sealed in a shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.

#### Section 06 - Accidental release measures

Steps to be taken in case of spill or leak:

Wear suitable protective equipment. Collect for disposal. Avoid discharge into sewers, on ground or into any body of water.

#### Section 07 - Handling and storage

Advice on safe handling:

Store in cool, dry area. Avoid excessive heat. Keep away from sources of heat, sparks or open flames.

Further info on storage conditions:

Store in original container.

Keep containers closed.

#### Section 08 - Exposure controls / personal protection

#### Occupational exposure limits:

Component	CAS number:	Regulatory list	Type of value	Values / Remarks
Particles (insoluble or poorly soluble)		US ACGIH Threshold Limit Values	Threshold Limit Value_Time Weighted Average	10 mg/m3

Respiratory protection: If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection: Butyl Rubber, PVC Or Neoprene.

Eye protection: Safety glasses or chemical splash goggles.

Other protective equipment: Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

Advice on system design: Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

IDLH:

None

#### Section 09 - Physical and chemical properties

Form:	Powder
Color:	white
Odor:	odorless
pH:	4. - 6 (5 g/l)
Solubility in water:	0.4 g/I (20 deg C)
Solubility in water:	4 g/I (75 deg C)
Miscibility with water:	approx. (20 deg C)
Miscibility with water:	approx. (75 deg C)
Density:	not tested.
Melting temperature :	437 - 456 deg F
Boiling point :	not determined
Vapor pressure:	not tested.
Bulk density:	approx. 600 kg/m3
Partitioning coef. octanol/water:	-3.14
Viscosity / (dynamic):	Not applicable

#### Further information:

Organic products which are intentionally or unintentionally in powdered form have, in principle, the possibility of creating a dust explosion hazard

## Section 10 - Stability and reactivity

Thermal decomposition: > 225 deg C

Chemical stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to avoid: None known.

Conditions to avoid: None known.

## Section 11 - Toxicological information

### Product information:

Acute oral toxicity: LD50 > 5,000 mg/kg (rat)

Method: OECD 401

Source: CIT

Acute inhalation toxicity: not tested.

Acute dermal toxicity: not tested.

Skin irritation: Non-irritating (rabbit)

Eye irritation: Non-irritating (rabbit)

## Section 12 - Ecological information

### Product information:

Biodegradation: 76 %

Method: OECD 301 B

The product is readily biodegradable according to OECD criteria.

Fish toxicity: LC50 > 5,000 mg/l (Brachydanio rerio)

Method: OECD 203

Daphnia toxicity: not tested.

Algae toxicity: not tested.

Bacteria toxicity: ECO > 10 g/l (Pseudomonas putida)

Source: IRCHA

Chemical oxygen demand (COD): 240 mg/g

Biological oxygen demand 63.8 mg/g

(BOD):

Remarks:

Do not dispose of in the environment.

Section 13 - Disposal considerations

Waste disposal information:

Recommended disposal is by incineration in approved facilities.

RCRA hazardous waste:

No -- Not as sold.

RCRA number: NONE

Section 14 - Transport information

DOT not restricted

IATA not restricted

IMDG not restricted

Section 15 - Regulatory information

TSCA Status:

All components of this product are listed on the TSCA Inventory.

SARA (section 311/312):

Reactive hazard: no

Pressure hazard: no

Fire hazard: no

Immediate/acute: yes

Delayed/chronic: no

SARA 313 information:

This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act:

Contains no known priority pollutants at concentrations greater than 0.1%.

Volatile organic compounds VOC:

Remarks: Not Available

FDA:

FDA regulated cosmetic ingredient.

This product is not registered with the FDA.

Section 16 - Other information

Other precautions:

Observe all necessary precautions for handling fine powders to control dust. May present dust explosion hazard. Reference exposure limit: ACGIH (TLV) for particulate matter - 10 mg/m<sup>3</sup> inhalable particulates, 3 mg/m<sup>3</sup> respirable particulates. OSHA Permissible Limit (PEL) for particulate matter: total dust: 15 mg/m<sup>3</sup>; respirable fraction: 5 mg/m<sup>3</sup>

Label information:

CAUTION!

MAY CAUSE IRRITATION TO EYES AND SKIN MAY IRRITATE UPPER RESPIRATORY TRACT. IF A DUST CLOUD IS GENERATED DURING USAGE, ORGANIC POWDERS HAVE THE POTENTIAL TO BE EXPLOSIVE WITH STATIC SPARK OR FLAME INITIATION.

Avoid breathing dust. Avoid contact with eyes, skin and clothing. Wear proper protective equipment. Keep container closed when not in use. Use with ventilation and/or respiratory protection to keep exposure to a minimum. Wash thoroughly after handling. Maintain good housekeeping for dust control.

Eye contact: flush with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention. Skin contact: wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention. Wash contaminated clothing before reuse. Ingestion: seek medical attention immediately. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if respiratory irritation continues.

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