

1 Identification

Product identifier

Trade name: 87A1 - Alginat

Recommended use and restrictions on use

General use: For casts and for scar treatment for orthopedic procedures.
Reserved for industrial and professional use.

Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

Postal code, city: Burlington, ON L7L 5N5, CA
Canada

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Telephone: (800) 665-3327

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Department responsible for information:

Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

Additional information:

Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency telephone number

COLLECT, Telephone: (613) 996-6666

2 Hazard identification

Classification

This mixture is classified as not hazardous.

Information elements

Symbols: not applicable

Hazard statements: not applicable

Precautionary statements: not applicable

Other hazards known to the supplier with respect to the product

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

3 Composition/Information on ingredients

Mixture

Chemical name: Mixture of the substances listed below with non-hazardous additions.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 16919-27-0	Dipotassium hexafluorotitanate	1 - 2.5 %	Acute Toxicity 4 (oral). Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.

The actual concentration or concentration range is withheld as a trade secret.

Additional information: Contains Diatomaceous earth, soda ash flux-calcined, Talcum and Magnesium oxide.
The maximum workplace exposure limits are, where necessary, listed in section 8.

4 First-aid measures

Description of necessary first-aid measures

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

In case of swallowing: Rinse mouth. Never give anything by mouth to an unconscious person. Seek medical attention.

In case of skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

In case of eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

Most important symptoms and effects, whether acute or delayed

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5 Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Unsuitable extinguishing media:

Full water jet.

Specific hazards arising from the product

Fires in the immediate vicinity may cause the development of dangerous vapours.
Furthermore, there may develop: Sodium compounds, metallic oxides, hydrogen fluoride.

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and protective clothing to protect skin and eyes.

Additional information: Do not allow fire water to penetrate into surface or ground water.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust.

In case of dust formation: Do not breathe dust.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

If necessary, notify appropriate authorities.

Methods and material for containment and cleaning up

Keep wet with water. Take up dust-free and set down dust-free.

Large amounts: Withdraw by suction. (High efficiency particulate air filter (HEPA filter))

Place in appropriate containers for disposal. Final cleaning.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust.

In case of dust formation: Do not breathe dust. Do not get in eyes, on skin, or on clothing.

Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Take standard precautions to prevent fire.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
14807-96-6	87A1 - Alginat	Canada: Alberta, OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: Alberta, OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: BC, OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: BC, OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: Québec, VEMP	10 mg/m ³ (total dust)
		Canada: Québec, VEMP	3 mg/m ³ (total dust, respirable fraction)
	Talcum	Canada: Alberta, OEL 8 hour	2 mg/m ³ (respirable fraction)
		Canada: BC, OEL TWA	0.1 fibers/cm ³ (Contains asbestos.)
		Canada: BC, OEL TWA	2 mg/m ³ (respirable fraction Containing no asbestos fibres)
		Canada: Ontario, OEL TWA	2 fibers/cm ³
1309-48-4	Magnesium oxide	Canada: Ontario, OEL TWA	2 mg/m ³ (respirable fraction)
		Canada: Québec, VEMP	1 fibers/cm ³
		Canada: Québec, VEMP	2 mg/m ³ (respirable fraction)
		Canada: Alberta, OEL 8 hour	10 mg/m ³
		Canada: BC, OEL STEL	10 mg/m ³ (respirable fraction, Smoke and Dusts)
		Canada: BC, OEL TWA	10 mg/m ³ (Smoke, inhalable fraction)
		Canada: BC, OEL TWA	3 mg/m ³ (respirable fraction, Smoke and Dusts)
		Canada: Québec, VEMP	10 mg/m ³ (inhalable fraction)

Appropriate engineering controls

Provide good ventilation and/or an exhaust system in the work area.

In the case of the formation of dust: Dust should be exhausted directly at the point of origin.

Individual protection measures, such as personal protective equipment

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. In case of dust formation: Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Body protection: Wear suitable protective clothing.

General hygiene considerations:

Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9 Physical and chemical properties

Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
Form:	powder
Colour:	pink
Odour:	Pleasant odour
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	Not applicable
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
pH:	Not applicable
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable
Water solubility:	Insoluble
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	Not applicable
Density and/or relative density	No data available
Vapour density:	Not applicable
Particle characteristics:	No data available

Additional information

Explosive properties:	Not explosive
Solid content:	100 %

10 Stability and reactivity

Reactivity: Refer to subsection "Possibility of hazardous reactions".

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid: Protect from heat and direct sunlight. Protect from moisture contamination.

Incompatible materials: No data available

Hazardous decomposition products:
No hazardous decomposition products when regulations for storage and handling are observed.

11 Toxicological information

Information on the likely routes of exposure

No data available

Health hazard information

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): ATE > 2,000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): ATE > 2,000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix (calculated): ATE (dusts/mist) > 5 mg/L/4h

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Expert judgement and weight of evidence determination (neutralization).

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Dipotassium hexafluorotitanate:
LD50 Rat, oral: 324 mg/kg (OECD 401)

Symptoms

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

12 Ecological information

Ecotoxicity

Further details: No data available

Persistence and degradability

Further details: No data available

Bioaccumulative potential

Partition coefficient — n-octanol/water:

No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

13 Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

14 Transport information

UN number

TDG, IMDG, IATA-DGR: not applicable

UN proper shipping name

TDG, IMDG, IATA-DGR: Not restricted

Transport hazard class

TDG, IMDG, IATA-DGR: not applicable

Packing group

TDG, IMDG, IATA-DGR: not applicable

Environmental hazards

Marine pollutant: no

Special precautions in connection with transport or conveyance either within or outside the premises

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15 Regulatory information

National regulations - Canada

Diatomaceous earth, soda ash flux-calcined: DSL: listed

Talcum: DSL: listed

Dipotassium hexafluorotitanate: DSL: listed

Magnesium oxide: DSL: listed

Further regulations, limitations and legal requirements

No data available

16 Other information

Revision date: 17/12/2025

Date of first version: 21/8/2008

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

Abbreviations and acronyms:

Acute Toxicity: Acute toxicity
 AS/NZS: Australian Standards/New Zealand Standards
 ATE: Acute toxicity estimate
 ATEmix: Acute Toxicity Estimate of mixture
 CAS: Chemical Abstracts Service
 CFR: Code of Federal Regulations
 CLP: Classification, Labelling and Packaging
 DMEL: Derived minimal effect level
 DNEL: Derived no-effect level
 DSL: Domestic Substances List
 EC: European Community
 EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
 EN: European Standard
 EQ: Excepted quantities
 Eye Damage: Eye damage
 HEPA filter: High efficiency particulate air filter
 IATA: International Air Transport Association
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IMDG Code: International Maritime Dangerous Goods Code
 IMO: International Maritime Organization
 LD50: Lethal dose 50%
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 OECD: Organisation for Economic Co-operation and Development
 OEL: Occupational Exposure Limit Value
 OSHA: Occupational Safety and Health Administration
 PBT: Persistent, bioaccumulative and toxic
 PNEC: Predicted no-effect concentration
 STOT SE: Specific target organ toxicity - single exposure
 TDG: Transportation of Dangerous Goods Regulation in Canada
 TLV: Threshold Limit Value
 TRGS: Technical Rules for Hazardous Substances
 vPvB: Very persistent and very bioaccumulative
 WEL: Workplace Exposure Limit

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.