



BENTOLIT SUPER, PLUXBENTON N, PLUXCOMPACT

MATERIAL SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

Substance

Chemical Name Colloidal aluminium hydrate silicate
 Commercial Names and Synonyms Bentonite, Pluxbenton, Bentolit Super, Pluxcompact
 Chemical Abstract Nomenclature

Uses Clarifying and stabilizing agents

Company Tel. +39-0321-790-300 (please see bottom of the page)

Emergency service Niguarda Hospital tel. +39-02-6610-1029

2 - COMPOSITION / INFORMATION ON INGREDIENTS

- **General description of the components, relative concentrations and risks**

Chemical name	N° CAS	N°EINECS	Conc/Range %	Classification	
				Symbols	R phrases
Bentonite	1302-78-9				

Formula: $M_x (R_2 R_3)_{20} (Si, Al)_4 (O)_{10} (OH)_2_{12}$, where $M = Na^+$ and/or $1/2Ca^{++}$, $R_2 = Mg$, $R_3 = Al$ or Fe

The product does not contain any other products and/or impurities that influence the product classification.

3 – HAZARDS IDENTIFICATION

Not dangerous classified substance according to official current regulations.

Health risks Low risk – Prevent dusts breathing.
 The product contains a maximum of 0.005% of breathable dusts (< 7.1 µm), that can contain a maximum of 10% of crystal silica. The content in breathable crystal silica is lower than 0.0005 %

Environmental risks Low risk

Physical and chemical hazards None
 Fire and explosion

4 – FIRST AID MEASURES

Inhalation Move the injured person outside
 Skin contact Wash abundantly with water and soap
 Eyes contact Wash immediately with water. Seek medical advice in case of irritation
 Ingestion Rinse the mouth with water

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5 – FIRE-FIGHTING MEASURES

Advised extinguishing agents	Non combustible - Use the most suitable agents according to the substances involved in the fire
Extinguishing agents to be avoided	None
Dangers caused by combustion matters	None
Protection measures in case of intervention	None
Additional information	Unflammable

6 – ACCIDENTAL RELEASES MEASURES

Collection and disposal methods	Collect mechanically in suitable containers by limiting dust formation – Re-use the non-contaminated product – Dispose of the residual material as assimilable waste
Personal-related safety precautions	Do not breathe in dusts
Environmental protection	None

7 – HANDLING AND STORAGE

Handling	A good change of air is enough, prevent dust formation
Storage	Store in a dry, cool and well-ventilated place

8 – PERSONAL PROTECTION / EXPOSURE CONTROL

Respiratory protection	Anti-dust mask (in case of dust formation)
Skin protection	
Hand protection	Safety gloves (in case of dust formation)
Eyes protection	Safety goggles with side screen – Do not wear contact lenses
Exposure limits	ACGIH 1993-94) TLV-TWA with reference to crystal silica: 0.1 mg/m ³ (quartz) - 0.05 mg/m ³ (tridymite and cristobalite)

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9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	physical state	Powder, granular
	colour	Light, grey, cream, variable
	smell	Odourless
Melting point		1150-1350 °C
Boiling point		N.A.
Density		0.7-0.9 kg/L
Solubility in water		Colloidal suspensions formation, insoluble
Flash point		N.A.
Inflammability limits (vol % in air)		Uninflammable
Autoignition temperature		N.A.
pH		8.5-10.5 at 100g/L (20°C)
Coefficient of division n-octanol/water		

10 – STABILITY AND REACTIVITY

Conditions to be avoided	Unknown
Products to be avoided	Unknown
Hazardous decomposition products	Unknown

11 – TOXICOLOGICAL INFORMATION

Penetration ways	Inhalation yes Ingestion unlikely event Contact no
Acute toxicity	N.A. on "Sax's dangerous properties - 1993 "
Inhalation consequences	Irritation
Ingestion consequences	Unlikely event
Skin local effects	Unknown
Eyes local effects	Irritation
Additional information	Prolonged inhalation of dusts containing breathable quartz fractions in concentrations higher than limits can cause silicosis

12 – ECOLOGICAL INFORMATION

Low solubility in water - Separable mechanically in water treatment plants - Hardly biodegradable because of its mineral origin – Unlikely bioaccumulation because of its scarce solubility in water – Ecotoxicity: unknown – Small polluting effects because of its scarce solubility in water.

13 – DISPOSAL CONSIDERATIONS

Product	The product can be disposed of in normal dumpings for inert material according to the current local regulations
Contaminated packages	Empty the package, unfold it completely and dispose of it according to the material

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14 – TRANSPORT INFORMATION

Product non subject to ADR/RID and IMO regulations, related to road, sea and airway transport of dangerous goods.

15 – REGULATORY INFORMATION

EC labelling	[]	Required by the law
	[]	Temporary
# Classification	[X]	Not required

16 – OTHER INFORMATION

Hazard symbol
Risk phrases

Safety phrases

This material safety data sheet has been issued in accordance with 2001/58/CE.

Before starting the use of this product for any new process or experiment, it must be carried out a deep study on the safety and the compatibility of the product itself with materials it could come in contact with.

The information contained in this safety data sheet is given to protect health and safety at work. No responsibility is taken for possibile damages arising from uses of this information for different purposes from the ones here indicated.

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