

BoneMedik-S

META BIOMED CO., LTD.

1. Identification of the substance/preparation and of the company/undertaking

- Product name	: BoneMedik-S	
- Product Number	: 880638789600	
- Relevant identified uses of	: Bone grafting materials.	
the substance or mixture		
and uses advised against		
- Supplier	: META BIOMED CO., LTD.	
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	Cheongju-si, Chungcheongbuk-do, Korea	
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2. Hazards identification

- Classification of the	: Not a hazardous substance or mixture according to Regulation (EC) No.
substance or mixture	1272/2008.
	This substance is not classified as dangerous according to Directive
	67/548/EEC.
- Label elements	: The product does not need to be labelled in accordance with EC directives or
	respective national laws.
- Other hazards	: none

3. Composition/information on ingredients

Information on hazardous ingredients				
Substances(Synonyms)	CAS No.	w/w %	EC Number	
Hydroxyapatite(HAp)	12167-74-7	95%<	235-330-6	
Calcium phosphate				
Calcium hydroxyphosphate				
No components need to be disclosed according to the applicable regulations.				

4. First aids measures

- Eye contact	: Flush eyes with water as a precaution
- Skin contact	: Wash off with soap and plenty of water. Consult a physician.



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- Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial
	respiration. Consult a physician.
- Ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with
	water. Consult a physician.
- General advice	: Consult a physician. Show this safety data sheet to the doctor in attendance.

5. Fire fighting measures

Extinguishing media	
- Suitable	: Water, Foam, Carbon Dioxide, Dry Chemical
- Not suitable	: N/A
- Special fire fighting	: Self contained breathing apparatus to prevent smoke inhalation.
procedures	
- Unusable fire/explosion	: None
hazards	
- Hazardous thermal	: Oxides of phosphorus, Calcium oxide
(de)composition products	
- Protection of fire fighters	: Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

- Personal precautions	: Use personal protective equipment. Avoid dust formation. Avoid	
	breathing vapors, mist or gas. Avoid breathing dust.	
- Environmental precautions	: Do not let product enter drains.	
- Methods for cleaning up	: Pick up and arrange disposal without creating dust. Sweep up and	
	shovel. Keep in suitable, closed containers for disposal.	

7. Handling and storage

- Handling	: Provide appropriate exhaust ventilation at places where dust is formed.
- Storage	: Store in cool place. Keep container tightly closed in a dry and well-ventilated
	place.

8. Exposure controls/personal protection

- Control parameters	: Components with workplace control parameters	
- Appropriate	: Handle in accordance with good industrial hygiene and safety	
engineering controls	practice. Wash hands before breaks and at the end of workday.	
- Respiratory protection	: Respiratory protection is not required. Where protection from	



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	nuisance levels of dusts are desired, use type N95 (US) or type P1
	(EN 143) dust masks. Use respirators and components tested and
	approved under appropriate government standards such as NIOSH
	(US) or CEN (EU).
- Skin and body	: Wear suitable protective clothing.
- Hands	: Wear suitable gloves.
- Eyes	: With sufficient extraction or closed system; safety goggles.

9. Physical and chemical properties

- Physical state	: solid, powder	- Evaporation rate	: no data available
- Color	: gray, off-white	- Flammability(solid, gas)	: no data available
- Odor	: no data available	- Solubility in water	: Insoluble
- Odor Threshold	: no data available	- рН	: N/A
- Boiling point	: no data available	- Flash point	: no data available
- Melting point	: 1,100℃ ~ lit.	- Autoignition temperature	: no data available
- Vapor pressure	: no data available	- Upper/Lower explosion	: no data available
- Vapor density	: no data available	limit	
- Specific gravity(H ₂ O=1)	: 3.14	- Viscosity	: no data available
- Decomposition temp.	: no data available	- Partition coefficient: n-	: no data available
		octanol/water	

10. Stability and reactivity

- Stability	: Stable under recommended storage conditions.
- Condition to avoid	: no data available
- Materials to avoid	: Strong oxidizing agents
- Hazardous reactions	: no data available
- Hazardous decomposition products	: Other decomposition products - no data available

11. Toxicological information

- Acute toxicity	: LD50 Oral - rat - male and female - > 5.000 mg/kg
	LD50 Dermal - rabbit - male and female - > 2.000 mg/kg
- Skin corrosion/irritation	: Skin - rabbit
	Result: No skin irritation - 4 h
	(OECD Test Guideline 404)
- Serious eye damage/eye	: Eyes - rabbit



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irritation	Result: No eye irritation	
- Respiratory or skin	: no data available	
sensitisation		
- Carcinogenicity	: No component of this product present at levels greater than or equal to	
	0.1% is identified as probable, possible or confirmed human carcinogen	
	by IARC	
- Germ cell mutagenicity	: mouse	
	lymphocyte	
	Result: negative	
- Reproductive toxicity	: no data available	
- Specific target organ	: no data available	
toxicity - single exposure		
- Specific target organ	: no data available	
toxicity - repeated exposure		
- Aspiration hazard	: no data available	

12. Ecological information

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- Toxicity	: no data available
- Persistence and	: no data available
degradability	
- Bioaccumulative	: no data available
potential	
- Mobility in soil	: no data available
- Other adverse effects	: no data available

13. Disposal considerations

- Product	: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or
	mix the material with a combustible solvent and burn in a chemical incinerator
	equipped with an afterburner and scrubber.
- Contaminated	: Dispose of as unused product.
packaging	·



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14. Transport information

- UN number	: N/A	- Packaging group	: N/A
- UN proper shipping	: Not dangerous goods	- Environmental hazards	: No
name		- Special precautions for	: no data available
- Transport hazard class	: N/A	user	
- Sea transport IMDG/GGV	: N/A		
sea class			

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
- Safety, health and environmental regulations/legislation specific	: no data available	
for the substance or mixture		
- Chemical Safety Assessment	: For this product a chemical safety assessment was not carried	
	out	

16. Other information

The information contained in the Safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

- Revision No.	: 1
- Date previous issue	: 08-01-2015
- Date of issue	: 08-01-2015
- Date of printing	: 08-01-2015
- Prepared by	: META BIOMED CO., LTD.