

Material Safety Data Sheet

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I. Product and company identification

I.1 Product Name : AnsCare ChitoClot Gauze/ Chito-SAM 100

I.2 Chemical Classification : Chitosan

I.3 Company Details

Manufacturer/Supplier : BenQ Materials Corporation

Address : No.29, Jianguo E. Rd., Guishan Township, Taoyuan County 33341, Taiwan

Telephone Number : 886-3-3748800

2. Hazard identification

Not listed in hazardous item

3. Composition/Information on ingredients

3.1 Chemical characterization : Mixture

	CAS NO.	%(w/w)
chitosan	9012-76-4	99~99.9
acetic acid	64-19-7	0.5~1
tween 20	9005-64-5	0.5~1

4. First Aid Measures

4.1 General Instructions : Consult a physician. Show this safety data sheet to the doctor in attendance.

4.2 Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.3 Ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.4 Eye Protection: Flush eyes with water as a precaution.

4.5 Skin Protection: Wash off with soap and plenty of water. Consult a physician.

5. Fire-Fighting measures

5.1 Suitable Extinguishing Media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Unsuitable Extinguishing Media : None established.

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5.3 Specific Hazards : Carbon oxides, nitrogen oxides (NO_x).

5.4 Special Fire Fighting Procedures : Wear self contained breathing apparatus for firefighting if necessary.

5.5 Special protective equipment for the Fire Fighters : Self-contained breathing apparatus

6. Accidental release measures

6.1 Personal Precautions :

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental Precautions :

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 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

7.1 Handling Precautions : Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Storage Conditions : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Unsuitable Packaging Materials : None established

8. Exposure controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

9. Physical and chemical properties

9.1 Physical Form : Nonwoven

9.2 Color : light yellow

9.3 Odor : no data available

9.4 pH : 4.5~6

9.5 Melting Point : no data available

9.6 Boiling point/range : no data available

9.7 Flash Point : no data available

9.8 Explosive Limit : no data available

9.9 Vapor Pressure @ 25°C : no data available

9.10 Vapour Density (air=1) : no data available

9.11 Specific Gravity : no data available

9.12 Water Solubility : no data available

9.13 Partition Coefficient (n-Octanol/Water) : no data available

9.14 Autoignition temperature : no data available

9.15 Decomposition Temperature : no data available

9.16 Odor Threshold : no data available

9.17 Evaporation Rate : no data available

9.18 Flammability (Solid, Gas) : no data available

10. Stability and Reactivity

10.1 Stability : Stable under recommended storage conditions.

10.2 Possibility of Hazardous Reactions : no data available.

10.3 Conditions to Avoid : no data available

10.4 Materials to Avoid : Strong oxidizing agents

10.5 Hazardous Decomposition Products : no data available

11. Toxicological information

11.1 Route of Exposure : Inhalation, skin contact and accidental ingestion.

11.2 Signs and Symptoms of Overexposure : No significant adverse effects from normal use.

11.3 Acute Toxicity :

LD50 Oral - rat - > 10.000 mg/kg

11.4 Carcinogenicity :

IARC: 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.

11.5 Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

11.6 Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1 Toxicity to fish

LC50 - *Oncorhynchus mykiss* (rainbow trout) – 1.73 mg/l - 96 h

12.1 Toxicity to daphnia and other aquatic invertebrates

EC50 - *Daphnia pulex* (Water flea) – 13.69 mg/l - 48 h

12.3 Persistence and degradability

no data available

12.4 Bioaccumulative potential

no data available

12.5 Mobility in soil

no data available

12.6 Results of PBT and vPvB assessment

no data available

12.7 Other adverse effects

Toxic to aquatic life. no data available

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13. Disposal Considerations

13.1 Product Disposal : 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.

13.2 Packaging Disposal : Dispose of as unused product.

14. Transport Information

14.1 Sea Transport (IMDG)

UN No.: -

Proper Shipping Name: Not dangerous goods

Class: -

Packing Group: -

Marine Pollutant (Yes/No): -

Hazard Label(s): -

15. Regulatory Information

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355): None.

Section 304 CERCLA Hazardous Substances (40 CFR 302): None.

Section 311/312 Hazard Class (40 CFR 370):

Acute: No

Chronic: No

Fire: No

Pressure: No

Reactive: No

Section 313 Toxic Chemicals (40 CFR 372): None present or none present in regulated quantities.

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Supplemental State Compliance Information

California: None known.

Massachusetts: No ingredient regulated by MA Right-to-Know Law present.

16. Other Information

16.1 Contact Point : Biomedical Product Business Div.

16.2 Prepared by : BenQ Materials Corporation

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.