



邦泰複合材料股份有限公司
PONTEX POLYBLEND CO., LTD.

Preparation Date: 30/01/2006

Revision Date: 1 3/06/2006

MSDS Ref No: BI01

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product name : BNB020 -NA / BNB020-Y01
Grades : biodegradable (environmentally friendly)
Chemical name : Starch -derivative
Chemical formula : Basic structure of Starch-derivative with mineral powder
CAS No : See Section Information on Ingredients

2. COMPANY IDENTIFICATION

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Address : Main Office : 23 -6
Lung Hsing Lane, Feng Hsing Rd., Sec.2 , Tan Tzu
Hsiang, Taichung Hsien, Taiwan R.O.C
Plant : 805 Chung-Shan Road, Shen Kang

Hsiang,

Taichung Hsien, Taiwan R.O.C

Contact number (General : (04) 2561 – 6305 (Plant)
Information / Sales Enquiry)

3. INFORMATION ON INGREDIENTS

Component name	% by wt	CAS Reg No
Starch-derivative	Approximately 55 % ~ 50 %	—
Mineral powder	Approximately 50 % ~ 45%	---
Additives	Approximately $\leq$ 3 phr	Various



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4. HAZARD IDENTIFICATION

Corrosive material	:	NO
Explosive material	:	NO
Flammable material	:	NO
Reactive material	:	NO
Toxic material	:	NO

5. FIRST-AID MEASURES

Eye	:	If irritation develop, seek medical attention immediately.
Skin	:	Pellet is inert and harmless. If irritation develop, seek medical attention immediately. If in contact with hot molten resin, do not peel off the hot molten resin from skin, but flush with plenty of water (min15 minutes) to cool down the thermal burred skin quickly and then seek medical attention immediately.
Inhalation	:	If exposed to the thermal decomposition gas, remove the person from exposure to fresh air environment. If difficult in breathing occurs, administer artificial respiration, followed by oxygen and seek medical attention immediately.
Ingestion	:	If illness or adverse symptoms develop, seek medical attention immediately.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken	:	Spilled pellet is a slipping hazard. Sweep up and discard. Keep out of water sources and sewers. In case of molten resin spillage, cool it down with water And then depose accordingly.
Personal protective equipment required	:	When handling molten resin, use thermal resistant gloves.



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7. FIRE FIGHTING MEASURES

Suitable fire fighting agents : Water spray, foam, carbon dioxide, dry chemicals

Precautions to be observed : Resin when melted will spread on the floor which it will catch fire easily.

Protective clothing and breathing apparatus : Wear appropriate safety equipment for fire conditions (including positive pressure self contained apparatus (SCBA) and protective fire-fighting garments)

8. HANDLING AND STORAGE

Handling : Wear appropriate personal protection equipment. Material is in solid form and is non-hazardous. No risk to the health of operators when handling at room temperature. During processing, avoid inhalation of the fumes and vapors.

Storage condition : Store away from heat of flames. Have good housekeeping to prevent dust accumulation. Avoid contact with water, hot aromatic, chlorinated solvents and other hot strong oxidants.

Ventilation : Workplace must be equipped with a good ventilation system and fume collector (if necessary)

9. PERSONNEL PROTECTION EQUIPMENT

Eye protection : Use safety glasses.

Respiratory protection : Use dust mask

Storage condition : Normal clothing. When handling hot molten resin, wear thermal resistant hand gloves



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10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid, opaque / translucent pellet
Odour	: Odourless
Boiling point	: Not applicable
Melting points / range	: 135 ~ 195 °C
Vapor pressure	: Not applicable
Vapor density	: Not applicable
Specific gravity (H ₂ O = 1)	: 1.75 ~ 1.95
Solubility in water	: Not soluble
Solubility in other liquid	: Soluble in hot aromatic, chlorinated solvent
Viscosity	: Not applicable
PH	: Not applicable
Flash point	: Not applicable
Flammability limits	: Not applicable
Autoignition temperature	: Not applicable

11. STABILITY AND REACTIVITY

Stability	: Stable
Thermal decomposition temperature	: > 240°C
Incompatible materials	Hot aromatic, chlorinated solvents and hot strong oxidants
Condition to avoid	: Not applicable
Hazardous decomposition product	: Carbon monoxide and carbon dioxide may be generated
Hazardous polymerisation	: Will not occur



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12. OVER EXPOSURE AND TOXICOLOGICAL INFORMATION

- Route of entry and effect of over-exposure : Inhalation : Vapors produced are unlikely at room temperature (with reference to the physical properties). Dust may produce irritation to the mucous membrane of the nose, throat and upper respiratory tract.
- Skin contact : Essentially non-irritating but in contact with hot molten resin can cause severe burned.
- Ingestion : May cause choking if swallowed. Resin itself is inert and harmless. Ingestion must be avoided.
- Acute effects : Not known applicable information
- Chronic effects : Not known applicable information
- Permissible exposure level : Not known applicable information

13. OVER EXPOSURE AND TOXICOLOGICAL INFORMATION

- Biodegradability : Not known applicable information
- Aquatic toxicity : Not known applicable information
- Mobility : Not known applicable information
- Bioaccumulative potential : Not known applicable information

14. OVER EXPOSURE AND TOXICOLOGICAL INFORMATION

- Disposal method : Recover for reuse if possible, it may be buried on an authorized landfill site or be incinerated, however these disposal method shall comply with the local authorities legislation.



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15. PACKAGING AND TRANSPORT INFORMATION

Type of packaging : Standard 25 Kg Resin bag

Special transport requirement : Not applicable

16. REGULATORY INFORMATION

1. FDA (Food And Drug Administration) Compliance : YES

Compliance Code: 177.1520, 178.2010, 178.3295, 182.3173, 181.24, 177.1010, 178.3570,
179.45, 175.105, 176.2600, 182.2437

2. Under the Singapore Standard 286: Part1: 1984, Classification and Class Labels for
Hazardous Substances, Section 3.1, this product is NOT a Hazardous Substance ☐

3. O

Chemical ? as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

END
