

MATERIAL SAFETY DATA SHEET Asia Pacific GHS Format

Print date: 24-Dec-2010 Revision Number: 2 Revision date: 24-Dec-2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name: VERTON*

Product Name: NV006E -YWNAT -COL

Product Description: Poly (bisphenol-A-carbonate) [CASRN 111211-39-3]/Poly (acrylonitrile-butadiene-styrene)

[CASRN 9003-56-9] blend with flame retardant

Product Type: Commercial Product

Recommended use: May be used to produce molded or extruded articles or as a component of other industrial

products.

Company: SABIC Innovative Plastics Japan LLC.

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2. HAZARDS IDENTIFICATION

Globally Harmonized System, UN(GHS) - Classification

GHS Category

Carcinogenicity • Category 2

GHS-Labeling

Product Name: VERTON PCA-F-7006 EM Page 1 of 8 Revision date: 24-Dec-2010



Hazard Statements

· Suspected of causing cancer

Precautionary Statements

Prevention

Obtain special instructions before use, Do not handle until all safety precautions have been read and understood, Use personal protective equipment as required.

General advice

• IF exposed or concerned: Get medical attention/advice

Storage

· Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification:

SABIC Emergency Overview

- Pellets with slight or no odor
- Spilled material may create slipping hazard
- Can burn in a fire creating dense, toxic smoke
- Molten plastic can cause severe thermal burns
- Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Severe over-exposure may result in nausea, headache, chills, and fever. See below for additional effects.
- · Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.

Other Information: Cool skin rapidly with cold water after contact with molten material Heating can release

hazardous gases Hazardous fumes can also occur in post-processing operations

Processing Issues: Processing vapors may cause irritation to the eyes, skin, and respiratory tract. In cases of

severe exposure, nausea and headache can also occur. Grease-like processing vapor condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury

to skin.

Aggravated Medical Conditions: MEDICAL RESTRICTIONS: There are no known health effects aggravated by exposure to this

product. However, certain sensitive individuals and individuals with respiratory impairments

may be affected by exposure to components in the processing vapors.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Type Mixture

Hazardous Components

	i da ad					
Ī	Chemical Name	CAS Number	Weight %	EC-No.		
ſ	Fibrous Glass	65997-17-3	10-30	-		

If present, components listed above are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data are provided in Section 15, REGULATORY INFORMATION.

4. FIRST AID MEASURES

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4. FIRST AID MEASURES

If Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If

symptoms persist, call a physician.

On skin contact: Immediately cool the skin by rinsing with cold water after contact with hot material. Wash off

immediately with soap and plenty of water. Consult a physician.

On contact with eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist.

On ingestion: No hazards which require special first aid measures.

Precautions: Processing vapors inhalation may be irritating to the respiratory tract. If symptoms are

experienced remove victim from the source of contamination or move victim to fresh air and

obtain medical advice.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray mist or foam.

Unsuitable extinguishing Media for safety reasons: Carbon dioxide and dry chemical are not recommended because their lack of cooling capacity

may permit re-ignition.

Hazards from Combustion

Products:

Fire will produce dense black smoke containing hazardous combustion products, carbon

oxides, hydrocarbon fragments, hydrogen cyanide, nitrogen oxides.

Specific Hazards: Take precautionary measures against static discharges. During processing, dust may form

explosive mixture in air. Thermal decomposition can lead to release of irritating gases and

vapors.

for Firefighters:

Special Protective Equipment In the event of fire, wear self-contained breathing apparatus.

Do not release chemically contaminated water into drains, soil or surface water. Sufficient **Exposure hazards:**

measures must be taken to retain the water used for extinguishing. Dispose of contaminated

water and soil according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Should not be released into the

environment.

Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by Clean up:

using a brush or compressed air.

7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate Handling:

exhaust ventilation and dust collection at machinery. Avoid dust formation. All metal parts of

the mixing and processing equipment must be earthed.

Store in closed container in a dry and cool area. Keep away from heat sources and sources of Storage:

ignition. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in

a dry and well-ventilated place.

Incompatible Products: Strong acids, strong oxidizing agents.

PERSONAL PROTECTION

Exposure limits: No components with information, unless noted below

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Chemical Name	US OSHA PEL (8 Hr)	Japan OEL(TWA)	China OEL(TWA)	Korea OEL(TWA)	Singapore OEL(TWA)	Thailand OEL(TWA)
Fibrous Glass	No Information	1 FIBERS/ML	3 mg/m ³ fibers, total	TWA: 1 mg/m ³ as W	PEL_LT: 1 mg/m ³ as	No Information
65997-17-3			dust		W; PEL_ST: 3 mg/m ³	
			3 mg/m ³ Total dust.			

Chemical Name	India TWA	Malaysia OEL(TWA)	Taiwan OEL(TWA)	Australian OEL(TWA)	Phillipines OEL(TWA)	SABIC
						Recom.(8 Hr)*
Fibrous Glass	No Information	PEL_TWA8: 1 mg/m ³	No Information	No Information	No Information	No Information
65997-17-3		as W				

SABIC limit *SABIC Innovative Plastics Recommended Exposure Limits have been established for certain chemicals.

Engineering Measures to

Reduce Exposure:

Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate

personal protection.

Hand Protection: Protective gloves should be worn

Eye Protection: Safety glasses with side-shields or chemical goggles. In addition, use full-face shield when

cleaning processing vapor condensates from hood, ducts, and other surfaces.

Respiratory Protection: When using this product at elevated temperatures, implement engineering systems,

administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid, gases, and particulate matter) if processing vapors are not adequately controlled or operators experience symptoms of overexposure. If dust of powder are produced from secondary operations such as sawing or grinding, use a respirator

approved for protection from dust.

Body Protection: Long sleeved clothing

Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance: Pellets
Color: Varies
Odor: None or sl

Odor: None or slight
Odor Threshold: No information available.

pH Not applicable

Melting point/range: This product does not exhibit a sharp melting point but softens gradually over a wide range of

temperatures.

Boiling point/range: Not applicable
Flash Point: Not applicable
Evaporation Rate: Negligible

Flammability (solid, gas):

Explosive Limits

Blend; neither component is flammable

upper: Not determined lower: Not determined Vapor Pressure: Negligible

Vapor Density: No information available

Specific gravity: >1; (water = 1)
Water Solubility: Insoluble
Autoignition Temperature: Not determined

Explosive Properties: Dust may form explosive mixture in air

Oxidising Properties: Not oxidising
Molecular Weight: Polymer
VOC content (%): Negligible
Surface tension: No data available

10. STABILITY AND REACTIVITY

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10. STABILITY AND REACTIVITY

Reactivity: Not reactive under recommended conditions of handling, storage, processing and use.

Stability: Stable under ambient conditions. Hazardous polymerization does not occur.

Polymerization: Hazardous polymerization does not occur

Conditions to Avoid: To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the

formation of gaseous decomposition products, some of which may be hazardous. Do not exceed melt temperature recommendations in product literature. Purgings of hot material should be collected in small, flat, thin shapes and quenched with water to allow for rapid cooling. Do not allow product to remain in barrel at elevated temperatures for extended

periods of time.

May react with strong oxidizing agents, strong acids or other highly reactive chemicals.

Hazardous Decomposition

Products:

Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates, styrene, acrylonitrile, acrolein, acetophenone, acetaldehyde, cumene, alpha methylstyrene, 4-vinylcyclohexene.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:

LD50/oral/rat: >5000 mg/kg **LD50/dermal/rabbit:** >2000 mg/kg

Component Information:

Component Information Text: No data available

Sensitization

Respiratory Sensitization: Not classified

Irritation:

Eye Irritation: no data available

Subchronic Toxicity (28 days)

Repeated Oral Toxicity(28d): No information available Repeated Dermal Toxicity(28d): No Information available Subchronic Toxicity: No information available

Chronic Toxicity

Carcinogenicity: There are no known carcinogenic chemicals in this product except specifically mentioned

below.

Chemical Name	IARC:
Fibrous Glass	3
65997-17-3	

Mutagenic Effects: No data is available on the product itself.

Reproductive Toxicity:

Developmental Toxicity:

No information available

No information available

Neurological effects: No information available

Specific Target Organ Toxicity(STOT)

Target Organ Effects: Not established

Aspiration Hazard

Aspiration Hazard Statement: No data available

Other relevant toxicity information

IARC: Not listed
OSHA: Not regulated
NTP: Not tested

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Remarks: The toxicological data has been taken from products of similar composition.

Special Studies: No Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component Information:

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Chemical Name Toxicity to Fish		Daphnia Magna (Water Flea)	Toxicity to Microorganisms	
Fibrous Glass	No data available	No data available	No data available	No data available	
65997-17-3					

Product Information:

Persistence and Degradability

Biodegradation: Not inherently biodegradable

Partition coefficient (n-octanol/water) Not established

Bioaccumulative Potential:

Bioaccumulation: Not established

Mobility

Mobility: May be separated mechanically in waste water plants.

Other Adverse Effects

Ecotoxicity Effects: Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

products:

Waste from residues / unused Where possible recycling is preferred to disposal or incineration Dispose of in accordance with

local regulations

Contaminated Packaging: Empty containers should be transported/delivered using a registered waste carrier for local

recycling or waste disposal.

Waste Disposal: Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local

requirements. Collected processing fume condensates and incinerator ash should be tested to

determine waste classification.

14. TRANSPORT INFORMATION

IMO / IMDG Not regulated

ICAO Not regulated

IATA-DGR Not regulated

DOT Not regulated

ADR/RID Not regulated

ADR: Not regulated

ADN Not regulated

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15. REGULATORY INFORMATION

International Inventories:

TSCA (USA): Listed DSL(Canada): Listed **EINECS/ELINCS (Europe):** Listed Listed **ENCS (Japan):** IECSC(China): Listed KECL(Korea): Listed Listed PICCS (Philippines): AICS (Australia): Listed

Other Inventory Information:

A "Listed" entry above means all chemical components are on the respective inventory list and/or a qualifying exemption exists for one or more components. A "Not listed" entry above indicates one or more components is restricted from import or manufacture into that country/region. Articles are exempt from registration and are therefore not listed on the national chemical inventories.

SARA (313) Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA (311, 312) hazard class:

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactive Hazard

N

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS hazard class:

Non-controlled

California Proposition 65:

Components in this product known to the State of California to cause cancer and/or reproductive effects, are listed below:

Chemical Name	Weight %	California Proposition 65:	
Fibrous Glass	10-30	Listed: July 1, 1990	Carcinogenic. (airborne, unbound particles of respirable
65997-17-3			size)

RoHS EU Directive 2002/95/EC:

The subjected product is in compliance with EU RoHS Directive 2002/95/EC. All below chemicals are not employed in the manufacture of the product: a.Cadmium and its compounds, b.Lead and its compounds, c.Mercury and its compounds, d.Hexavalent chromium compounds, e.Polybrominated biphenyls (PBBs), f.Polybrominated diphenyl ethers (PBDEs including Deca-BDE). The trace levels of heavy metals may be present as impurities within threshold limits (<0.1% for Pb, Hg, Cr VI, and <0.01% for Cd). We are disclosing this information, to the best of our knowledge, based upon data from our raw material manufacturers.

Remarks

This product consists primarily of high molecular weight polymers which are not expected to be hazardous. The ingredients in this product are present within the polymer matrix and are not expected to be hazardous.

HMIS Rating Health: 0 Flammability: 1 Reactivity: 0

16. OTHER INFORMATION

VERTON* is a registered trademark of SABIC Innovative Plastics IP BV

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16. OTHER INFORMATION

Prepared by: Product Stewardship & Toxicology.

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End of Material Safety Data Sheet

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