

SAFETY DATA SHEET Asia Pacific GHS Format

Print date: 17-Aug-2016 Revision Number: 1 Revision date: 17-Aug-2016

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

THERMOCOMP™ Trademark:

Product Code: LF003 - YWNAT

Product Description: Polyetheretherketone (PEEK) glass fiber filled

Product Type: Commercial Product

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

products.

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Japan

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2. HAZARDS IDENTIFICATION

The additives in this product (if any) are bound in a thermoplastic resin matrix. In accordance with GHS for the classification of the product, the hazard potential may be assessed with respect to the physico-chemical form and/or bioavailability of the individual components in the thermoplastic resin.

Where GHS classifications are shown below, these are based on the individual components in the thermoplastic resin matrix. Under the typical use conditions for the resin, these hazardous components are unlikely to contribute to workplace exposure. Please read the entire safety data sheet and/or consult an EHS professional for a complete understanding.

Globally Harmonized System, UN(GHS) - Classification

GHS Category

Not hazardous Not classified

GHS-Labeling

GHS Labeling not required

Precautionary Statements

No GHS specific Precautionary Statements required - observe all other warnings and handling instructions in this SDS.

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: OSHA, IARC and/or NTP have listed carbon, titanium dioxide, crystalline silica (quartz),

respirable glass and certain heavy metals, present in some colorants and fillers, as carcinogens. If these materials are present in this product at significant quantities, they are shown in Section 2/3. These materials are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Type

Mixture

HAZARDOUS COMPONENTS:

Chemical Name	CAS Number	Weight %	GHS Classification (EC) No. 1272/2008 [CLP]:
Fiberglass, EU/GHS classified	65997-17-3	10-30	Carc.2 (H351)

For the full text of the H-statements, if mentioned in this section, see Section 16.

The non-hazardous components and exact percentage (concentration) of the composition have been withheld as a trade secret.

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.

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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: Not probable due to nature of the product. If a large amount of pellet material is swallowed,

consult a physician for medical treatment.

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.

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5. FIRE-FIGHTING MEASURES

Autoignition Temperature:

595°C (1103°F)

Explosive Limits

upper: lower:

Not determined Not determined

Suitable Extinguishing Media:

Use dry chemical, CO2, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition on larger resin fires (blobs, drools, etc.).

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

for Safety Reasons:

Hazards from Combustion

Products:

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

oxides, hydrocarbon fragments.

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.

Special Protective Equipment

for Firefighters:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected

location due to the potential of hazardous vapors and decomposition products.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

See section 8.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Material should not be released

into the environment.

Clean up:

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

using a brush or compressed air.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practices Provide for appropriate exhaust ventilation and dust collection at machinery Avoid dust formation All

metal parts of the mixing and processing equipment must be earthed

Storage:

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

of ignition.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No components with information, unless noted below

Chemical Name	US OSHA PEL (8 Hr)	Japan OEL(TWA)	China OEL(TWA)	Korea OEL(TWA)	Singapore OEL(TWA)	Thailand OEL(TWA)
Fiberglass, EU/GHS classified 65997-17-3	No Information	1 FIBERS/ML	3 MGM3 fibers, total dust 3 MGM3 Total dust.		PEL_LT: 1 mg/m³ as W; PEL_ST: 3 mg/m³	No Information

Chemical Name	India TWA	Malaysia OEL(TWA)	Taiwan OEL(TWA)	Australian OEL(TWA)	Phillipines OEL(TWA)	SABIC Recommend (8 Hr)*
Fiberglass, EU/GHS classified	No Information	PEL_TWA8: 1 mg/m ³ as W	No Information	No Information	No Information	No Information
65997-17-3						

^{*}SABIC Recommended Exposure Limits have been established for certain chemicals.

Engineering Measures to Reduce Exposure:

Handle in accordance with good industrial hygiene and safety practices. 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. In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

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 or 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Solid

Appearance:

Pellets

Color:

Same as color code

Odor:

None or slight

Melting point/range:

This product does not exhibit a sharp melting point but softens gradually over a wide range

of temperatures.

Autoignition Temperature:

595°C (1103°F) Negligible

Vapor Pressure: Water Solubility: Evaporation Rate:

Insoluble Negligible

Explosive Limits

upper: lower: Not determined Not determined

Specific gravity: VOC content (%):

>1; (water = 1) Negligible

10. STABILITY AND REACTIVITY

Stability:

Stable under ambient conditions. Hazardous polymerization does not occur.

Conditions to Avoid:

Avoid temperatures above 450°C. 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.

Hazardous Decomposition

Products:

Process vapors under recommended processing conditions may include trace levels of

hydrocarbons, carbon oxides.

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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

Primary Irritation:

Substance does not generally irritate and is only mildly irritating to the skin Skin irritation

Subchronic Toxicity (28 days)

Repeated Oral Toxicity(28d):

No information available

Repeated Dermal Toxicity(28d): Subchronic Toxicity:

No Information available No information available

Subclifoliic Toxicity

Chronic Toxicity
Carcinogenicity:

There are no known carcinogenic chemicals in this product above de minimus reporting

levels, except as specifically mentioned below.

Chemical Name	IARC:
Fiberglass, EU/GHS classified	3
65997-17-3	

Mutagenic Effects:

No data is available on the product itself

Reproductive Toxicity: Developmental Toxicity:

No information available No information available.

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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: NTP: Not regulated Not tested

Remarks:

....

Special Studies:

No Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component Information:

Product Information:

Other information:

Ecological damages are not known or expected under normal use.

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

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Persistence and Degradability

Biodegradation: Partition coefficient (n-octanol/water) Not inherently biodegradable

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

Waste from residues / unused

products:

Where possible recycling is preferred to disposal or incineration. Dispose of in accordance

with local regulations.

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

Transport Classification: Not regulated as hazardous for shipment, unless noted below, under current transportation

guidelines.

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): Not listed - One or more components listed on NDSL

EINECS/ELINCS (Europe): Listed
ENCS (Japan): Listed
IECSC (China): Listed
KECL (Korea): Listed
PICCS (Philippines): Listed
AICS (Australia): Listed
NZIOC (New Zealand): 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.

SVHC (REACH Regulation (EC) No 1907/2006 and 453/2010, as amended):

This product does not intentionally contain SVHC chemicals except as noted below. Incidental amounts of impurities, if present, would be below the threshold limit of 0.1% by weight.

SARA (313) 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 Title 40 of the Code of Federal Regulations, Part 372.

SARA (311, 312) hazard class:

Acute Health Hazard	N
Chronic Health Hazard	N
Fire Hazard	N
Sudden Release of Pressure Hazard	N
Reactive Hazard	N

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. Unless noted below, this product is non-controlled. Some classifications may not apply to the entire product.

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:
Fiberglass, EU/GHS classified	10-30	Listed: July 1, 1990 Carcinogenic. (airborne, unbound
65997-17-3		particles of respirable size)

RoHS EU Directive 2011/65/EU:

The subject product is in compliance with EU RoHS Directive 2011/65/EU. 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.

HMIS Rating Health: 0 Flammability: 1 Reactivity: 1

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16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H351 - Suspected of causing cancer if inhaled

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SDS Scope:

Singapore: Conforms to Singapore workplace Safety and Health (WSH) Act, WSH Regulations, and GHS Standard 586 China: Conforms to Chinese Regulation on the Control over Safety of Hazardous Chemicals (Decree No 591) and GHS standards GB15258,GB13698,GB/T16483 etc.

Japan: Conforms to Industrial Safety and Health Law, Japan (2015) and Industrial GHS Standards JIS Z7253

Korea: Conforms to Industrial Safety & Health Act, Ministry of Labor, Korea

Taiwan: Conforms to Taiwan Rules on Hazard Communication and Labeling of Hazardous Substances, (Council of Labor Affairs, Taiwan) and GHS standards Z1051

Thailand: Conforms to Notification of the Ministry of Industry on the System of Classification and Hazard Communication of Hazardous Substances B.E. 2555 (2012)

Australia: National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011 (2003)] This document is also applicable in other countries and regions.

Prepared by: Product Stewardship & Toxicology

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End of Safety Data Sheet

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