

# SAFETY DATA SHEET Asia Pacific GHS Format

Print date: 04-Feb-2016 Revision Number: 2 Revision date: 05-Feb-2016

# 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark: CYCOLOY™

Product Code: C6200 - GY8A242

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

[CASRN 9003-56-9] blend

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 Japan LLC. Tokyo Club Building, 2-6 3Chome Kasumigaseki, Chiyoda-Ku Tokyo, 100-0013

Japan

-SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai

Ltd. 2550 Xiupu Road, Pudong New Area, Shanghai 201319, China (Contact address) -SABIC Korea Ltd. 20F, Donghoon Building, 317, Teheran-ro, Seoul, Korea -SABIC Innovative Plastics Singapore Pte Ltd 23, Benoi Road, 629895 Singapore

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**Emergency** 

800 424-9300 (USA)

Transportation/CHEMTREC

(24 HOUR):

+1 703-527-3887 (globally, outside USA)

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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 skip

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]:
Titanium dioxide	13463-67-7	1-5	
Nickel antimony titanium oxide yellow	8007-18-9	0.1 - <0.3	Acute Tox. 4 (H332) Acute Tox. 4 (H302) Aquatic Chronic 2 (H411)

#### 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.

# 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.

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# 5. FIRE-FIGHTING MEASURES

**Autoignition Temperature:** 

Not determined

**Explosive Limits** 

upper: lower:

Not determined Not determined

**Suitable Extinguishing Media:** 

Water spray mist or foam. 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.).

for Safety Reasons:

Unsuitable Extinguishing Media Carbon dioxide and dry chemical are not recommended because their lack of cooling capacity may permit re-ignition, Do not use a solid water stream as it may scatter and

spread fire.

**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.

**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.

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

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. 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. 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.

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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)
Titanium dioxide 13463-67-7	FRL_TWA: 5 mg/m³ Respirable fraction, 10 mg/m³ Total dust; TL_PEL: 5 mg/m³ Respirable fraction, 15 mg/m³ Total dust	1 MGM3 4 MGM3	8 MGM3 Total dust.	TWA: 10 mg/m <sup>3</sup>	PEL_LT: 10 mg/m <sup>3</sup>	No Information
Nickel antimony titanium oxide yellow 8007-18-9	FRL_TWA: 1 mg/m³ as Ni ; TL_PEL: 1 mg/m³ as Ni	0.1 MGM3	0.5 MGM3 Sb 1 MGM3 Ni 0.5 MGM3 Ni	TWA: 0.5 mg/m³ as Sb	0.5 MGM3 1 MGM3 0.1 MGM3	1 MGM3 Ni

Chemical Name	India TWA	Malaysia OEL(TWA)	Taiwan OEL(TWA)	Australian OEL(TWA)	Phillipines OEL(TWA)	SABIC Recommend (8 Hr)*
Titanium dioxide 13463-67-7	No Information	PEL_TWA8: 10 mg/m <sup>3</sup>	PC: 10 mg/m <sup>3</sup>	No Information	15 MGM3	No Information
Nickel antimony titanium oxide yellow 8007-18-9	No Information	PEL_TWA8: 0.5 mg/m³ as Sb	PC: 1 mg/m³ as Ni	No Information	0.5 MGM3 1 MGM3	No Information

<sup>\*</sup>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.

**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:

Varies 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:** 

Not determined 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

Reactivity: Not reactive under recommended conditions of handling, storage, processing and use. No

information available.

Stability: Stable under ambient conditions. 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.

Materials to Avoid: 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.

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# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

**Product Information:** 

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

Component Information:

**Component Information Text:** 

No data available

Sensitization

**Respiratory Sensitization:** 

Not classified

Irritation:

Eye Irritation:

no data available

Primary Irritation: Substa

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

Subchronic Toxicity (28 days)

**Subchronic Toxicity:** 

Repeated Oral Toxicity(28d): Repeated Dermal Toxicity(28d):

No information available No Information available No information available

**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:
Titanium dioxide 13463-67-7	2B
Nickel antimony titanium oxide yellow 8007-18-9	1

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: OSHA: NTP: Not listed Not regulated Not tested

Remarks:

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

**Special Studies:** 

Titanium Dioxide: The International Agency for Research on Cancer (IARC) has determined titanium dioxide to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Rats exposed to high doses of titanium dioxide by inhalation or intratracheal instillation showed an increased incidence of lung tumors.

# 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** 

**Component Information:** 

**Product Information:** 

Other information:

Ecological damages are not known or expected under normal use.

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. Descartar em

conformidade con as legislação locals.

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

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

guidelines.

IMO / IMDG Not regulated

ICAO Not regulated

<u>IATA-DGR</u> 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 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 contains a chemical or chemicals that are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS Number	Weight %	CERCLA/SARA 313 de minimus:
Nickel antimony titanium oxide yellow	8007-18-9	0.1 - < 0.3	0.1

## 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:
Titanium dioxide 13463-67-7	1-5	Listed: September 2, 2011 Carcinogenic. (airborne, unbound particles of respirable size)
Nickel antimony titanium oxide yellow 8007-18-9	0.1 - <0.3	Listed: May 7, 2004 Carcinogenic. (as nickel compounds)
Carbon black 1333-86-4	0.01-0.10	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)
4,4'-isopropylidenediphenol (bisphenol A) 80-05-7	≤100 ppm	Listed: May 11, 2015 Type of Toxicity: Female
Cumene 98-82-8	≤10 ppm	Type of Toxicity: cancer
Methylene chloride 75-09-2	≤10 ppm	Type of Toxicity: cancer
Acrylonitrile 107-13-1	≤10 ppm	Type of Toxicity: cancer

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Ethylbenzene 100-41-4	≤10 ppm	Type of Toxicity: cancer
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# 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.

#### 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

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# **16. OTHER INFORMATION**

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

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H411 - Toxic to aquatic life with long lasting effects

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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 (2006) and GHS related Standards JIS Z7253:2012

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

DISCLAIMER: This Safety Data Sheet [SDS] information is provided based on the Hazard Communication Regulations for your region or country and for the use of the persons required to receive this information under those regulations. The information is neither designed nor recommended for any other use or for use by any other person, including for compliance with other laws. SABIC Innovative Plastics does not warrant the suitability for use of this SDS for any other material or product not specifically identified herein. SABIC Innovative Plastics does not warrant the accuracy or authenticity of this SDS unless it has been obtained directly from SABIC Innovative Plastics, or posted or viewed on a SABIC Innovative Plastics website. Modification of this SDS, unless specifically authorized by SABIC Innovative Plastics, is strictly prohibited. This SDS is based on information that is believed to be reliable, but may be subject to change as new information becomes available. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. Since the use of this material is not under SABIC Innovative Plastics' control, each user is responsible for making its own determination as to the safe and proper handling of this material in its own particular use of this material. SABIC INNOVATIVE PLASTICS MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each user should read and understand this information and incorporate it into individual site safety programs as required by applicable hazard communication standards and regulations.

**End of Safety Data Sheet** 

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