

1. IDENTIFICATION

Trademark	: VALOX™ resin
Product name	: 3706-GY8G367
Product description	: Poly (butylene terephthalate) / Polycarbonate Blend
Appearance	: pellets
Chemical nature	: Mixture
Recommended use	: May be used to produce molded or extruded articles or as a component of other industrial products. Manufacture of plastics products, including compounding and conversion
Restrictions on use	: For industrial use only.
Supplier	: SABIC Innovative Plastics (China) Ltd.or SABIC Innovative Plastics International Trading Shanghai Ltd. 2550 Xiupu Road, Pudong New Area, Shanghai 201319, China Contact Telephone: +86-400-833-1033
Emergency SABIC Telephone #	: China: +86 532 83889090
Emergency Transportation #	: CHEMTREC, U.S. : (800) 424-9300 International: +1 (703) 527-3887
E-mail address	: sds.info@sabic.com
Website	: http://www.sabic.com

**2. HAZARDS IDENTIFICATION****GHS Remark**

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. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans. The European CLP Regulation also mentions, that no classification is indicated if the mechanism is not relevant to humans. 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.

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

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.

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 Condition

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

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration
Antimony Trioxide	1309-64-4	>= 3 - < 5 %
Titanium Dioxide PW6	13463-67-7	>= 1 - < 3 %

Components which are considered potential hazards to health or the environment, if present above minimum concentrations, are listed above. Any concentration shown as a range is to protect confidentiality and/or is due to batch variation. Any non-hazardous components are being withheld as a trade secret. This product consists primarily of high molecular weight polymers which are not expected to be hazardous. Furthermore, any additives in this product are present within the polymer matrix and are not expected to be hazardous under recommended use conditions. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

General advice : Thermal decomposition can lead to release of irritating gases and vapours. Move the victim to fresh air. Obtain medical attention.

If inhaled	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	: After contact with skin, wash immediately with plenty of cold water. Wash off immediately with soap and plenty of water. Consult a physician. If skin irritation persists, call a physician.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Negligible or unlikely exposure pathways If accidentally swallowed obtain immediate medical attention.
Notes to physician	: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use dry chemical, CO ₂ , 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.
Specific hazards during firefighting	: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Material is not sensitive to mechanical impact.
Hazardous combustion products	: Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments. If present, certain hazardous additives can also liberate halogenated hydrocarbons.
Specific extinguishing methods	: 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 vapours.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary. Stay upwind/ keep distance from source.
Explosive properties	: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Take precautionary measures against static discharges.
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- Environmental precautions : Do not flush into surface water or sanitary sewer system. Should not be released into the environment. SABIC is committed to implementing Responsible Care® and global sustainability programs (such as The Alliance to End Plastic Waste, Operation Clean Sweep®, etc.) throughout the value chain that are designed to prevent and address accidental releases into the environment. Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.
- Methods and materials for containment and cleaning 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

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice. 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. Open containers only in well-ventilated area.

- Avoidance of contact : No special restrictions on storage with other products.

Storage

- Conditions for safe storage : Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition. Residual monomer vapors can accumulate in the headspace of closed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Reference
Antimony Trioxide	1309-64-4	PC-TWA	0.5 mg/m ³ (antimony)	GBZ 2.1-2007
Titanium Dioxide PW6	13463-67-7	PC-TWA (Total dust)	8 mg/m ³	GBZ 2.1-2007
Titanium Dioxide PW6	13463-67-7			SABIC OEL: Occupational Exposure Limits
Further information: No information available.				
Titanium Dioxide PW6	13463-67-7	TWA	10 mg/m ³ (Titanium)	ACGIH

		dioxide)
Further information: Lower Respiratory Tract irritation, See Notice of Intended Changes (NIC), Not classifiable as a human carcinogen		

Engineering measures : Handle in accordance with good industrial hygiene and safety practice. Provide 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.

Personal protective equipment

Respiratory protection : Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

Eye/face protection : Safety glasses with side-shields Chemical resistant goggles must be worn.

Skin and body protection : Long sleeved clothing

Hand protection

Material : Wear protective gloves.

Protective measures : Wear suitable protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: pellets
Physical state	: solid
Colour	: grey
Odour	: none or slight
Odour Threshold	: No information available.
pH	: No data available
Melting point/range	: This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
Boiling point/boiling range	: not determined
Flash point	: Not applicable
Flammability	: No information available.
Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapour pressure	: negligible
Relative vapour density	: not determined
Relative density	: >1 (water = 1)
Density	: not determined
Bulk density	: 500 kg/m ³
Water solubility	: insoluble
Solubility in other solvents	: not determined
Partition coefficient: n-octanol/water	: No information available.

Auto-ignition temperature	: 360 °C estimated
Decomposition temperature	: not determined
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable

10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable at normal ambient temperature and pressure. Hazardous polymerisation does not occur.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. 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.
Incompatible materials	: No special restrictions on storage with other products.
Hazardous decomposition products	: Process vapors under recommended processing conditions may include trace levels of, hydrocarbons, tetrahydrofuran (THF), aliphatic aldehydes, hydrocarbons, phenols, alkylphenols, diarylcarbonates

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity
Remarks: >5000 mg/kg (estimated)

Acute dermal toxicity
Remarks: >2000 mg/kg (estimated)

Respiratory or skin sensitisation

STOT - repeated exposure

Components:

1309-64-4:

Components	Exposure routes	Target Organs	Assessment
Antimony Trioxide		Cardio-vascular system, Eyes, Lungs, Respiratory	

		Tract, Skin	
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13463-67-7:

Components	Exposure routes	Target Organs	Assessment
Titanium Dioxide PW6		Lungs	

Repeated dose toxicity**Components:****1309-64-4:**

Components	Application Route	Species	Value	Exposure time
Antimony Trioxide	inhalation (dust/mist/fume)	Rat, female	LOAEL: 2.6 mg/m3	19 d
Antimony Trioxide	inhalation (dust/mist/fume)	Rat, male and female	LOAEL: 4.92 mg/m3	
Antimony Trioxide	inhalation (dust/mist/fume)	Rat, male and female	NOAEL: 0.51 mg/m3	

Experience with human exposure**Product:**

Inhalation	: Remarks: Inhalation unlikely due to physical form. Processing fumes evolved at recommended conditions may contain trace amounts of hazardous chemicals. Extreme processing conditions or temperatures may result in higher levels. 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 duct work, molds, and other surfaces can cause irritation and injury to skin.
Skin contact	: Remarks: Not a hazard during normal industrial use. If present, some additives (like glass fiber or flame retardants) may cause skin irritation in susceptible persons.
Eye contact	: Remarks: Resin particles, like other inert materials, are mechanically irritating to eyes.
Ingestion	: Remarks: Ingestion unlikely due to physical form.

Further information**Product:**

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information

Do not flush into surface water or sanitary sewer system. Ecological injuries are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods/Disposal considerations

- Waste from residues : Waste must be classified and labelled prior to recycling or disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal. Where possible recycling is preferred to disposal or incineration. SABIC is committed to implementing Responsible Care® and global sustainability programs (such as The Alliance to End Plastic Waste, Operation Clean Sweep®, etc.) throughout the value chain that are designed to prevent and address accidental releases into the environment. Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.
- Contaminated packaging : Where possible recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

UNRTDG

Not regulated as a dangerous good

National Regulations**GB 6944/12268**

Not regulated as a dangerous good

15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:

REACH (European Union)	: For further information, please contact: Manufacturer, importer, supplier
CH INV (Switzerland)	: The formulation contains substances listed on the Swiss Inventory Not in compliance with the inventory
TSCA (USA)	: On TSCA Inventory
DSL (Canada)	: All components of this product are on the Canadian DSL
AICS (Australia)	: On the inventory, or in compliance with the inventory
NZIoC (New Zealand)	: On the inventory, or in compliance with the inventory
ENCS (Japan)	: On the inventory, or in compliance with the inventory
ISHL (Japan)	: For further information, please contact: Manufacturer, importer, supplier
KECI (Korea)	: On the inventory, or in compliance with the inventory
PICCS (Philippines)	: On the inventory, or in compliance with the inventory
IECSC (China)	: On the inventory, or in compliance with the inventory
TCSI (Taiwan)	: For further information, please contact: Manufacturer, importer, supplier
EHSNR (Malaysia)	: For further information, please contact: Manufacturer, importer, supplier
CICR (Turkey)	: For further information, please contact: Manufacturer, importer, supplier

Other applicable national regulatory information

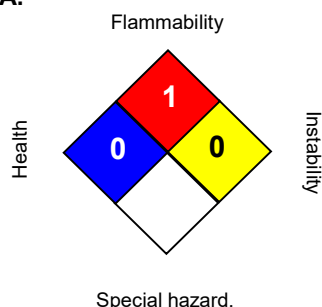
Not applicable

16. OTHER INFORMATION

Further information

Registered trademark : SABIC and brands marked with TM are trademarks of SABIC or its subsidiaries or affiliates.

Prepared by : Product Stewardship

NFPA:**HMIS III:**

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Disclaimer

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End of Safety Data Sheet

