

SAFETY DATA SHEET According to Regulation (EC) No 1907/2006 and 453/2010 (REACH)

Print date: 21-May-2015 Revision Number: 2 Revision date: 22-May-2015

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark: VERTON™

Product Code: MV00AS - BK1B461

Product Description: Polypropylene [CASRN 9003-07-0] 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.

Company: SABIC Innovative Plastics B.V.

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Manufacturer: SABIC Innovative Plastics

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2. HAZARDS IDENTIFICATION

The additives in this product 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.

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not hazardous Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC

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In 1995, the International Agency for Research on Cancer (IARC) concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black." IARC's overall evaluation was that "Carbon black is possibly carcinogenic to humans (2B)." In 2006, IARC re-affirmed this classification. There has been no causal link between carbon black exposure and cancer risk in humans. Applying the rules of the Globally Harmonized System of Classification and Labelling (GHS, e.g. UN 'Purple Book', EU CLP Regulation) the results of repeated dose toxicity and carcinogenicity studies in animals do not lead to classification of Carbon Black for Specific Target Organ Toxicity (Repeated exposure) and carcinogenicity. 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. Furthermore, the CLP guidance on classification and labelling states, that "lung overload" in animals is listed under mechanism not relevant to humans.

CLP/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: 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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Type Mixture

HAZARDOUS COMPONENTS:

Chemical Name	CAS Number	Weight %	Classification (67/548/EEC):	GHS Classification (EC) No. 1272/2008 [CLP]:
Fiberglass, EU/GHS classified	65997-17-3	30-70	Classification: Carc.Cat.3; R40	Carc. 2 (H351)
Carbon black	1333-86-4	0.1-0.3		

For the full text of the H-phrases, 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: Cool molten product on skin with plenty of water. Do not remove solidified product Do not

peel polymer from the skin

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5. FIRE-FIGHTING MEASURES

No information available **Autoignition Temperature:**

Explosive Limits

upper: Not determined

lower: 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.)

for Safety Reasons:

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

Hazardous Decomposition

Products:

See section 10

Hazards from Combustion

Products:

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

oxides, hydrocarbon fragments.

Special Protective Equipment

for Firefighters:

In the event of fire, wear self-contained breathing apparatus (EU: NEN-EN137)

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

6. ACCIDENTAL RELEASE MEASURES

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

using a brush or compressed air.

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.

7. HANDLING AND STORAGE

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

appropriate 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 Storage:

of ignition.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No components with information, unless noted below **Exposure limits:**

Chemical Name Fiberglass, EU/GHS classified

65997-17-3 5 mg/m³

EU TWA Netherlands OEL - MAC

10 MGM3 Dust.

2 MGM3 Respirable dust.

2 FIBERS/CM3 Respirable fibers.

UK EH40 MEL (TWA) WEL_TWA: 1 mg/m3 as W; WEL_STEL: 3 mg/m3 as W

Spain - Valores Limite Ambientales - VLE 1FIBERS/CM3

0.5FIBERS/CM3

Switzerland SUVA Limit Values at the Workplace Data -Kol_C: k_1C; Comments: No data

Time Weighted Average (TWA):

Norway Exposure Limit Values Data - Threshold Limit

Ireland Exposure Limit Values Data - Time Weighted

Italy - OEL

Average (TWA):

0.2 FIBERS/CM3 Fiber. 1 FIBERS/CM3 Fiber.

KONS: 5 mg/m3 totalstøv

5 MGM3 Inhalable fraction.

TWA 3.5 mg/m³; STEL 7 mg/m³

DT 13.5 ma/m³: DT 27 ma/m³

HTP_8: 3.5 mg/m³; HTP_15: 7 mg/m³

TWA 5 mg/m³, 1 fibres/cm3 of air

Chemical Name Carbon black 1333-86-4

France INRS (VME) 3.5 MGM3 **Netherlands OEL - MAC** 3.5 ma/m3

UK EH40 MEL (TWA) WEL TWA: 3.5 mg/m³; WEL STEL: 7 mg/m³

Spain - Valores Limite Ambientales - VLE VLA-ED: 3.5 mg/m³ Denmark TWA Data - Threshold Limit Values (TLV): ANM: p K; GR: 3.5 mg/m³ NGV: 3 MGM3 totaldamm Sweden Threshold Limit Values Data -

Portugal - TWAs VLE-MP: 3.5 mg/m³; NOT: A_4; FUND: Pulmão KONS: 3.5 mg/m³

Norway Exposure Limit Values Data - Threshold Limit

Ireland Exposure Limit Values Data - Time Weighted

Average (TWA): **Greece - OEL**

Finland Exposure Limit Values Data - Time Weighted

Average (TWA):

Italy - OEL 3.5 mg/m³

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

Engineering Measures In the case of hazardous fumes, wear self-contained breathing apparatus. Wear face-shield toExposure:

and protective suit for abnormal processing problems. Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation at machinery. 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.

Protective gloves should be worn. (EU: NEN-EN 374). **Hand Protection:**

Safety glasses with side-shields. (EU: NEN-EN 165-166). **Eve Protection:**

Respiratory Protection: In the case of hazardous fumes, wear self contained breathing apparatus. In case of

insufficient ventilation wear suitable respiratory equipment. (EU: NEN-EN149).

Body Protection: Long sleeved clothing. (EU: NEN-EN 340-369-465).

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Appearance: Pellets

Color: Same as color code

Odor: None

Melting point/range: Various

Autoignition Temperature: No information available

Vapor Pressure: Negligible

Water Solubility: Insoluble Evaporation Rate: Negligible

Specific gravity: >1; (water = 1)
VOC content (%): Negligible

Explosive Limits

upper: Not determined lower: Not determined

10. STABILITY AND REACTIVITY

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.

Hazardous Decomposition

Products:

Traces of, carbon oxides, aldehydes, alcohols, organic acids.

Incompatible Products: Strong acids, strong oxidizing agents.

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11. TOXICOLOGICAL INFORMATION

LD50/oral/rat: >5000 mg/kg

LD50/dermal/rabbit: >2000 mg/kg

Subchronic Toxicity: No information available

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

IARC: Not listed

OSHA: Not regulated

NTP: Not tested

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

Special Studies: Carbon Black: The International Agency for Research on Cancer (IARC) has determined

that carbon black is a class 2B known animal and possible human carcinogen by the route of inhalation. Rats exposed to high doses of carbon black by inhalation developed statistically significant increases in lung fibrosis and lung tumors. Carbon Black: The scientific discussions about the carcinogenic potential of inorganic low solubility particles (fine dust) including carbon black has not been concluded. Many inhalation toxicologists believe the lung fibrosis and tumors that developed in rats following exposure to carbon black result form massive accumulation of small dust particles that overwhelm the clearance mechanism and produce what is termed "lung overload," an effect considered to

be rat specific and not relevant to humans. In addition, based on epidemiological studies, no causal link between carbon black exposure and cancer risk in humans has been demonstrated. Fibrous Glass: The International Agency for Research on Cancer (IARC) has determined special-purpose fibrous glass to be a possible human carcinogen (class 2B) based on evidence in experimental animals. Chronic exposure of rats by inhalation to

high levels of E-glass fiber resulted in significant increases in lung tumors and

mesotheliomas.

12. ECOLOGICAL INFORMATION

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

Ecotoxicity - Invertebrate Data: Ecological damages are not known or expected under normal use.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products:

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.

EWC waste disposal no: 702 - waste from the manufacture, formulation, supply and use of plastics, synthetic rubber

and man-made fibres.

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14. TRANSPORT INFORMATION

Transport Classification:

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

guidelines.

DOT

ADR/RID/ADN

IMDG

<u>ICAO</u>

IATA-DGR

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15. REGULATORY INFORMATION

This substance is classified and labelled according to Annex I of Directive 67/548/EEC, as amended.

International Inventories:

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

REACH Information: For this product's REACH related information, please contact webinquiries@sabic-ip.com

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.

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 65997-17-3	30-70	Listed: July 1, 1990 Carcinogenic. (airborne, unbound particles of respirable size)		
Polypropylene 9003-07-0	30-70			
Carbon black 1333-86-4	0.1-0.3	Listed: February 21, 2003 Carcinogenic. (airborne, unbound 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.

16. OTHER INFORMATION

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

H351 - Suspected of causing cancer in contact with skin

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Visit our public website to search, view and print Safety Data Sheets for commercial products: http://eur.sabic-ip.com/ordeur/pages/msds/MSDSSearch.jsp?app=sabic-ip

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SDS Scope:

Europe: Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010. 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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