



## SAFETY DATA SHEET

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

Print date: 12-May-2015

Revision Number: 3

Revision date: 05-May-2015

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

<b>Trademark:</b>	VALOX™
<b>Product Code:</b>	357X - BK1669L
<b>Product Description:</b>	Polybutylene Terephthalate [CASRN 30965-26-5] flame retardant
<b>Product Type:</b>	Commercial Product
<b>Recommended use:</b>	May be used to produce molded or extruded articles or as a component of other industrial products.
<b>Company:</b>	SABIC Innovative Plastics B.V. Plasticslaan 1 P.O. Box 117 4600 AC Bergen op Zoom The Netherlands
<b>Manufacturer:</b>	SABIC Innovative Plastics B.V. Plasticslaan 1 P.O. Box 117 4600 AC Bergen Op Zoom The Netherlands
<b>Emergency Telephone Number (United States):</b>	Bergen op Zoom +31(0)164-292911 (24/24)
<b>Emergency Transportation/CHEMTREC (24 HOUR):</b>	800 424-9300 (USA) +1 703-527-3887 (globally, outside USA)
<b>E-mail:</b>	webinquiries@sabic-ip.com
<b>Website Address:</b>	www.sabic-ip.com

### 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



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.

Route of exposure, mechanistic information and metabolism studies are pertinent to determining the relevance of an effect in humans (GHS section 1.3.2.4.9.4). Where appropriate, GHS classification can be specified as route-dependent. The size distribution of the pellets containing the Antimony Trioxide eliminates the carcinogenicity hazard potential from Antimony Trioxide. This is the case because carcinogenicity of Antimony Trioxide has only been observed in animal studies under conditions that can lead to pulmonary overload.

### 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.



### 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]:
Antimony trioxide Sb <sub>2</sub> O <sub>3</sub>	1309-64-4	5-10	Carc. Cat.3;R40	Acute Tox. 5 (H303) Carc. 2 (H351)
Carbon black	1333-86-4	0.3-1.0		
Tetrahydrofuran	109-99-9	0.1-0.3	Classification: F; R11, R19 Xi; R36/37, R40	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H335) Carc. 2 (H351)

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:**

Wash off immediately with soap and plenty of water Immediately cool the skin by rinsing with cold water after contact with hot material 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



## 5. FIRE-FIGHTING MEASURES

<b>Autoignition Temperature:</b>	630°C (1166°F) estimated
<b>Explosive Limits upper:</b>	Not determined
<b>lower:</b>	Not determined
<b>Suitable Extinguishing Media:</b>	Use dry chemical, CO <sub>2</sub> , 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.)
<b>Unsuitable Extinguishing Media for Safety Reasons:</b>	Do not use a solid water stream as it may scatter and spread fire
<b>Hazardous Decomposition Products:</b>	Fire will produce dense black smoke containing hazardous combustion products carbon oxides hydrocarbons fragments hydrogen bromide
<b>Hazards from Combustion Products:</b>	brominated hydrocarbons.
<b>Special Protective Equipment for Firefighters:</b>	In the event of fire, wear self-contained breathing apparatus (EU: NEN-EN137)
<b>Specific Hazards:</b>	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

<b>Clean up:</b>	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.
<b>Personal Precautions:</b>	See section 8.
<b>Environmental Precautions:</b>	Do not flush into surface water or sanitary sewer system. Material should not be released into the environment.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	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.
<b>Storage:</b>	Store in closed container in a dry and cool area. Keep away from heat sources and sources of ignition.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No components with information, unless noted below

Chemical Name

**Antimony trioxide Sb<sub>2</sub>O<sub>3</sub>**

**1309-64-4**

SABIC Recommend (8 Hr)\*

0.5 mg/m<sup>3</sup> TWA as antimony compounds

France INRS (VME)

0.5 MGM3 Sb

Netherlands OEL - MAC

0.5 MGM3 Sb

UK EH40 MEL (TWA)

WEL\_TWA: 0.5 mg/m<sup>3</sup> as Sb

Spain - Valores Limite Ambientales - VLE

0.5MGM3

Denmark TWA Data - Threshold Limit Values (TLV):

GR: 0.5 mg/m<sup>3</sup> beregnet som Sb

Switzerland SUVA Limit Values at the Workplace Data - Time Weighted Average (TWA):

0.1 MGM3 Inhalable dust. Sb

Sweden Threshold Limit Values Data -

0.5 MGM3 Total dust. Sb

Norway Exposure Limit Values Data - Threshold Limit Value:

KONS: 0.5 mg/m<sup>3</sup> som Sb; Anm: K

Ireland Exposure Limit Values Data - Time Weighted Average (TWA):

TWA 0.5 mg/m<sup>3</sup> as Sb

Greece - OEL

0.5 MGM3 Sb

Finland Exposure Limit Values Data - Time Weighted Average (TWA):

HTP\_8: 0.5 mg/m<sup>3</sup>; HTP\_15: 40 mg/m<sup>3</sup>; HOU: Sb

Italy - OEL

0.5 MGM3 Sb

Chemical Name

**Carbon black**

**1333-86-4**

France INRS (VME)

3.5 MGM3

Netherlands OEL - MAC

3.5 mg/m<sup>3</sup>

UK EH40 MEL (TWA)

WEL\_TWA: 3.5 mg/m<sup>3</sup>; WEL\_STEL: 7 mg/m<sup>3</sup>

Spain - Valores Limite Ambientales - VLE

VLA-ED: 3.5 mg/m<sup>3</sup>

Denmark TWA Data - Threshold Limit Values (TLV):

ANM: p\_K; GR: 3.5 mg/m<sup>3</sup>

Sweden Threshold Limit Values Data -

NGV: 3 MGM3 totaldamm

Portugal - TWAs

VLE-MP: 3.5 mg/m<sup>3</sup>; NOT: A\_4; FUND: Pulmão

Norway Exposure Limit Values Data - Threshold Limit Value:

KONS: 3.5 mg/m<sup>3</sup>

Ireland Exposure Limit Values Data - Time Weighted Average (TWA):

TWA 3.5 mg/m<sup>3</sup>; STEL 7 mg/m<sup>3</sup>

Greece - OEL

DT\_1 3.5 mg/m<sup>3</sup>; DT\_2 7 mg/m<sup>3</sup>

Finland Exposure Limit Values Data - Time Weighted Average (TWA):

HTP\_8: 3.5 mg/m<sup>3</sup>; HTP\_15: 7 mg/m<sup>3</sup>

Italy - OEL

3.5 mg/m<sup>3</sup>

Chemical Name

**Tetrahydrofuran**

**109-99-9**

SABIC Recommend (8 Hr)\*

50 ppm TWA

EU STEL

300 MGM3 100 ppm

Germany (DFG) - MAK

ARBEIT: 150 mg/m<sup>3</sup>, 50 ml/m<sup>3</sup> (ppm); SPITZ: 2(l); BEM: DFG, p\_H, p\_Y

Netherlands OEL - MAC

WNG\_8: 300 mg/m<sup>3</sup>; WNB\_15: 600 mg/m<sup>3</sup>; Notatie: Skin

UK EH40 MEL (TWA)

WEL\_TWA: 150 mg/m<sup>3</sup>, 50 ppm; WEL\_STEL: 300 mg/m<sup>3</sup>, 100 ppm; p\_R: R11, R36/37, R19; COMMENTS: SKIN

Spain - Valores Limite Ambientales - VLE

VLA-ED: 50 ppm, 150 mg/m<sup>3</sup>; VLA-EC: 100 ppm, 300 mg/m<sup>3</sup>; NOTAS: dermica, VLB, VLI; p\_FR: R11, R19, R36/37

Denmark TWA Data - Threshold Limit Values (TLV):

ANM: p\_E, p\_H; GR: 148 mg/m<sup>3</sup>, 50 ppm GRL: 50 ppm; ANM: p\_H

Switzerland SUVA Limit Values at the Workplace Data - Time Weighted Average (TWA):

MAK\_Wert: 50 ppm, 150 mg/m<sup>3</sup>; Kurz\_Wert: 100 ppm, 300 mg/m<sup>3</sup>; HSB: p\_H, p\_B; Kol\_SS: Grp\_C; Zeitl.: 4x15 min

Sweden Threshold Limit Values Data -

KTV: 250 MGM3, 80 PPM; NGV: 150 MGM3, 50 PPM

Portugal - TWAs

VLE-CD: 250 ppm; VLE-MP: 200 ppm; NOT: IBE; FUND: Irritação, Narcose



**Norway Exposure Limit Values Data - Threshold Limit Value:**

**Ireland Exposure Limit Values Data - Time Weighted Average (TWA):**

**Greece - OEL**

**Finland Exposure Limit Values Data - Time Weighted Average (TWA):**

**Luxembourg**

**Italy - OEL**

KONS: 50 ppm , 150 mg/m<sup>3</sup> ; Anm: H (SKIN)

TWA 40 ppm , 118 mg/m<sup>3</sup> ; STEL 100 ppm , 295 mg/m<sup>3</sup> ; NOT IOELV, Skin

DT\_1 200 ppm , 590 mg/m<sup>3</sup> ; DT\_2 250 ppm , 735 mg/m<sup>3</sup>

HTP\_8: 50 ppm , 150 mg/m<sup>3</sup> ; HTP\_15: 100 ppm , 300 mg/m<sup>3</sup> ;

HOU: iho (SKIN) ; R-lauseet: R11 , R19 , R36/37

Valeurs limites - 8 heures 150 mg/m<sup>3</sup> , 50 ppm ; Valeurs limites -

Court terme 300 mg/m<sup>3</sup> , 100 ppm ; Note: Peau

VL-8: 50 PPM , 150 MGM3 ; VL-15: 100 PPM , 300 MGM3 ;

NOT: Pelle (SKIN)

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

**Engineering Measures toExposure:**

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. Provide for appropriate exhaust ventilation at machinery. Polybutyleneterephthalate fumes and condensates may contain trace quantities of tetrahydrofuran (typically less than 1 ppm, see section 2, 3 and 11).

**Hand Protection:**

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

**Eye Protection:**

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

**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).

**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:**

630°C (1166°F) estimated

**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

<b>Stability:</b>	Stable under ambient conditions. Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous. Avoid temperatures above 630°C.
<b>Hazardous Decomposition Products:</b>	Traces of, tetrahydrofuran (THF), phenols, alkylphenols, diarylcarbonates, hydrogen bromide, bromine, brominated hydrocarbons.



## 11. TOXICOLOGICAL INFORMATION

<b>LD50/oral/rat:</b>	>5000 mg/kg
<b>LD50/dermal/rabbit:</b>	>2000 mg/kg
<b>Subchronic Toxicity:</b>	No information available
<b>Primary Irritation:</b>	Substance does not generally irritate and is only mildly irritating to the skin
<b>IARC:</b>	Not listed
<b>OSHA:</b>	Not regulated
<b>NTP:</b>	Not tested Tetrahydrofuran: In 2-year carcinogenicity bioassays conducted by the National Toxicology Program (NTP), mice and rats (50/sex/group) were exposed to concentrations of 0, 200, 600, or 1,800 ppm via inhalation 6 hours/day, 5 days/week for 104 weeks. Under the conditions of these 2-year inhalation studies, there was some evidence of carcinogenic activity of tetrahydrofuran in male F344/N rats based on increased incidences of renal tubule adenoma or carcinoma (combined) at 600 and 1,800 ppm. There was no evidence of carcinogenic activity of tetrahydrofuran in female F344/N rats exposed to 200, 600, or 1,800 ppm or male B6C3F1 mice exposed to 200, 600, or 1,800 ppm. There was clear evidence of carcinogenic activity of tetrahydrofuran in female B6C3F1 mice based on increased incidences of hepatocellular neoplasms observed at 1,800 ppm.
<b>Remarks:</b>	The toxicological data has been taken from products of similar composition
<b>Special Studies:</b>	<p><b>PROCESSING FUMES:</b> Processing fumes evolved at recommended processing conditions may contain trace amounts of tetrahydrofuran (typically less than 1 ppm). Extreme processing conditions or temperatures may result in higher levels. See section 8 for appropriate exposure controls and personal protection. In 2-year carcinogenicity bioassays conducted by the National Toxicology Program (NTP), mice and rats (50/sex/group) were exposed to tetrahydrofuran at concentrations of 0, 200, 600, or 1,800 ppm via inhalation 6 hours/day, 5 days/week for 104 weeks. Under the conditions of these 2-year inhalation studies, there was some evidence of carcinogenic activity of tetrahydrofuran in male F344/N rats based on increased incidences of renal tubule adenoma or carcinoma (combined) at 600 and 1,800 ppm. There was no evidence of carcinogenic activity of tetrahydrofuran in female F344/N rats exposed to 200, 600, or 1,800 ppm or male B6C3F1 mice exposed to 200, 600, or 1,800 ppm. There was clear evidence of carcinogenic activity of tetrahydrofuran in female B6C3F1 mice based on increased incidences of hepatocellular neoplasms observed at 1,800 ppm.</p> <p><b>Carbon Black:</b> 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 from 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.</p> <p><b>Antimony trioxide:</b> Tested in a chronic inhalation of 45 mg/m<sup>3</sup> by guinea pigs resulted in extensive pneumonitis and fatty degeneration of the liver. Other long-term inhalation studies in rats and rabbits found lipid pneumonitis. One epidemiology study of process workers exposed to antimony metal suggests an increase in lung cancer. Animal studies and epidemiological studies suggests developmental toxicity.</p>





## 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.

**Germany VCI (WGK):** 0

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.

**EWC waste disposal no:** 702 - waste from the manufacture, formulation, supply and use of plastics, synthetic rubber and man-made fibres.

## 14. TRANSPORT INFORMATION

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

DOT

ADR/RID/ADN

IMDG

ICAO

IATA-DGR



## 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
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
REACH Information:	For this product's REACH related information, please contact <a href="mailto:webinquiries@sabic-ip.com">webinquiries@sabic-ip.com</a>

### 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:
Antimony trioxide Sb <sub>2</sub> O <sub>3</sub> 1309-64-4	5-10	Type of Toxicity: cancer
Carbon black 1333-86-4	0.3-1.0	Listed: February 21, 2003 Carcinogenic. (airborne, unbound particles of respirable size)
lead oxide 1317-36-8	<100 ppm	Listed: October 1, 1992 Carcinogenic
Silica quartz (SiO <sub>2</sub> ) 14808-60-7	<100 ppm	Listed: October 1, 1988 Carcinogenic.
arsenic trioxide 1327-53-3	<100 ppm	Listed February 27, 1987 Carcinogenic and May 1, 1997 Developmental toxicity
4-Vinylcyclohexene 100-40-3	<100 ppm	Listed: May 1, 1996 Carcinogenic.

### 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

- H225 - Highly flammable liquid and vapor
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H351 - Suspected of causing cancer in contact with skin
- H303 - May be harmful if swallowed



**Risk Phrases:**

R40 - Limited evidence of a carcinogenic effect

**SABIC and brands marked with <sup>TM</sup> are trademarks of SABIC or its subsidiaries or affiliates.**

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>

**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

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**