



SAFETY DATA SHEET

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

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trademark: LEXAN™
Product Code: FST3002 - GY3G282

Product Description: Polycarbonate [CASRN 25971-63-5] Blend Polycarbonate [CASRN 25971-63-5] / Polyester carbonate [CASRN 71519-80-7] Blend Polycarbonate [CASRN 111211-39-3] / Polycarbonate-Sil copolymer [CASRN 202483-49-6]

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.
Plasticslaan 1
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4600 AC Bergen op Zoom
The Netherlands

Manufacturer: SABIC Innovative Plastics B.V.
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5. FIRE-FIGHTING MEASURES

Autoignition Temperature: 630°C (1166°F) estimated 490 °C (914°F)

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.)

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

Hazardous Decomposition Products: Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbons fragments, Carbon monoxide, carbon dioxide (CO₂), triarylphosphate ester fragments, oxides of phosphorus.

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

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

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No components with information, unless noted below

Chemical Name	Netherlands OEL - MAC	Spain - Valores Limite Ambientales - VLE	Germany TRGS900 MAK	France INRS (VME)	Switzerland SUVA Limit Values at the Workplace Data - Time Weighted Average (TWA):	UK EH40 MEL (TWA)	Italy - OEL
Titanium dioxide 13463-67-7	10 MGM3	VLA-ED: 10 mg/m ³	No Information	10 MGM3 Ti	MAK_Wert: 3 mg/m ³ alveolenganger ; Kol_SS: Grp_C	WEL_TWA: 4 mg/m ³ respirable, 10 mg/m ³ total inhalable	10 MGM3
Nickel antimony titanium oxide yellow 8007-18-9	0.5 MGM3 Sb 1 MGM3 Ni 0.1 MGM3 Ni	0.5MGM3 0.2MGM3 0.1MGM3	No Information	0.5 MGM3 Sb	0.05 MGM3 Inhalable dust. Ni	WEL_TWA: 0.5 mg/m ³ as Sb	0.5 MGM3 Sb 0.2 MGM3 Inhalable fraction. Ni 0.1 MGM3 Inhalable fraction. Ni

Chemical Name	Sweden Threshold Limit Values Data -	Norway Exposure Limit Values Data - Threshold Limit Value:	Finland Exposure Limit Values Data - Time Weighted Average (TWA):	Ireland Exposure Limit Values Data - Time Weighted Average (TWA):	Greece - OEL	Poland - OEL:TWAs	SABIC Recommend (8 Hr)*
Titanium dioxide 13463-67-7	NGV: 5 MGM3 totaldamm	KONS: 5 mg/m ³	No Information	TWA 4 mg/m ³ respirable dust, 10 mg/m ³ total inhalable dust	DT_1 5 mg/m ³ T_1 , 10 mg/m ³ T_3	10 mg/m ³ NDS	No Information
Nickel antimony titanium oxide yellow 8007-18-9	0.1 MGM3 Total dust. Ni	KONS: 0.05 mg/m ³ som Ni; Ann: K, R, A	No Information	TWA 0.5 mg/m ³ as Sb	0.5 MGM3 Sb 1 MGM3 Ni	No Information	No Information

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

Engineering Measures to Reduce Exposure:	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 practices. Provide for appropriate exhaust ventilation at machinery.
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 490 °C (914°F)
Vapor Pressure:	Negligible
Water Solubility:	Insoluble
Evaporation Rate:	Negligible
Specific gravity:	>1; (water = 1)
Explosive Limits	
upper:	Not determined
lower:	Not determined
VOC content (%):	Negligible

10. STABILITY AND REACTIVITY

Stability:	Stable under ambient conditions. Hazardous polymerization does not occur.
Conditions to Avoid:	Avoid temperatures above 630°C. To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous.
Hazardous Decomposition Products:	Traces of phenol, alkylphenols, diarylcarbonates, hydrocarbons, Trace levels of triarylphosphate esters, phenols, styrene, chlorine, hydrogen chloride, chlorinated hydrocarbons.

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
IARC:	Not listed
OSHA:	Not regulated
NTP:	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

- Ecotoxicity Effects:** Do not flush into surface water or sanitary sewer system.
- Other information:** Ecological damages are not known or expected under normal use.
- 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. Descartar em conformidade con as legislação locais.
- 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

ANTT 420

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):	Not listed
AICS (Australia):	Listed
NZIoC (New Zealand):	Listed
REACH Information:	For this product's REACH related information, please contact webinquiries@sabic.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:
Titanium dioxide 13463-67-7	0.3 - <1.0	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
Toluene 108-88-3	≤100 ppm	Type of Toxicity: female ; Type of Reproductive Toxicity: developmental
Methylene chloride 75-09-2	≤ 10ppm	Type of Toxicity: cancer

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: 0

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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<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

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End of Safety Data Sheet