Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) No. 2020/878

SAFETY DATA SHEET

1. IDENTIFICATION

Trademark	:	LEXAN™ resin
Product name	:	2814R-739
REACH Registration Number	:	290018970
Product description	:	Polycarbonate copolymer / Polycarbonate Blend
Appearance	:	pellets
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 B.V. Plasticslaan 1 P.O. Box 117 4600 AC Bergen op Zoom The Netherlands Telephone: +31 (0)164-29 2911
Emergency SABIC Telephone #	:	Bergen op Zoom +31(0)164-292911 (24/24)
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.

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

3.2 Mixtures

Chemical nature : Mixture

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Carbon Black	1333-86-4	Self-heat. 1; H251	>= 0.3 - < 1

	215-609-9 , 01-2119384822-32-0071	Carc. 2; H351	
Substances with a workplace exposure limit :			
Glass Fiber	65997-17-3 266-046-0		>= 5 - < 10

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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 : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

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, hydrogen cyanide, nitrogen oxides. No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Stay upwind/ keep distance from source.
Further information	:	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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Take precautionary measures against static discharges.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Sweep up and shovel into suitable containers for disposal. Do not create a powder cloud by using a brush or compressed air.

6.4 Reference to other sections

For disposal considerations see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe 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.

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

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

Storage class (TRGS 510) : 11

7.3 Specific end use(s)

Specific use(s) : 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Glass Fiber	65997-17-3	TWA (Fibrous dust)	1 f/cc	SABIC OEL: Occupational Exposure Limits
		TWA (Fibrous dust)	1 f/cc	SABIC OEL: Occupational Exposure Limits
		TWA (particulate)	5 mg/m3	SABIC OEL: Occupational Exposure Limits
		TWA (Fibrous dust)	1 f/cc	SABIC OEL: Occupational Exposure Limits
Carbon Black	1333-86-4	TWA (particulate)	3 mg/m3	SABIC OEL: Occupational Exposure Limits

8.2 Exposure controls

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

Eye protection	:	Safety glasses with side-shields Chemical resistant goggles must be worn.
Hand protection		
Material	:	Wear protective gloves.
Skin and body protection	:	Long sleeved clothing
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.
Protective measures	:	Wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	:	pellets
Colour	:	black
Odour	:	none or slight
Odour Threshold	:	No information 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
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	Not applicable
Auto-ignition temperature	:	not determined
Decomposition temperature	:	not determined
pH	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		

Water solubility	:	insoluble
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No information available.
Vapour pressure	:	negligible
Relative density	:	>1 (water = 1)
Density	:	not determined
Bulk density	:	500 kg/m3
Relative vapour density	:	not determined

9.2 Other information

Explosives : Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable at normal ambient temperature and pressure.
Hazardous polymerisation does not occur.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

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.

10.5 Incompatible materials

Materials to avoid : No special restrictions on storage with other products.

10.6 Hazardous decomposition products

Hazardous decomposition products : Process vapors under recommended processing conditions may include trace levels of
hydrocarbons, styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethyl benzene, cumene, alpha methylstyrene, 4-vinylcyclohexene, phenols

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity
Not classified based on available information.

Product:

Acute oral toxicity	:	Remarks: >5000 mg/kg (estimated)
Acute dermal toxicity	:	Remarks: >2000 mg/kg (estimated)

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Components:

Carbon Black:

Target Organs	:	Lungs

Glass Fiber:

Target Organs	:	Eyes, Respiratory Tract, Skin

Aspiration toxicity
Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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:

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 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

13.1 Waste treatment methods

Product	:	Waste must be classified and labelled prior to 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

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

15. REGULATORY INFORMATION

SABIC is disclosing information on minor components in section 15 that, to the best of our knowledge, are based upon data from our raw material suppliers or manufacturers. Note that analysis of the raw materials and/or SABIC products for presence of these or other chemicals on a routine basis is neither part of our quality control plan, nor is it a part of our product specifications, and hence it shall not be construed as any warranty, expressed or implied. Chemical(s) listed in this section can be considered to be present with a concentration below 0.1 (% w/w), unless also appearing in section 3 where a higher concentration range may be displayed.

Further, this does not exclude presence of negligibly slight traces of other chemicals due to, amongst others, impurities or residuals in the components supplied by external parties and/or used in the production of such components. It is the responsibility of the manufacturer or seller to confirm and establish compliance of the final product with local/country regulatory requirements. The information provided here is current as of the date of this document, based on data available to SABIC.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Bisphenol-A (Number on list 66, 30)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.		Not applicable
Water hazard class (Germany)	:	nwg not water endangering Classification according VwVwS, Annex 4.
TA Luft List (Germany)	:	Total dust: Not applicable Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: portion Class 1: < 0.01 %

Carcinogenic substances:
portion Class 2: < 0.01 %

Mutagenic:
Not applicable
Toxic to reproduction:
others: < 0.01 %

Volatile organic compounds : negligible

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: < 0.01 %
Volatile CMR compounds: < 0.01 %

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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

TCSI	:	Not in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	Not in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

16. OTHER INFORMATION

Full text of H-Statements

H251	:	Self-heating: may catch fire.
H351	:	Suspected of causing cancer.

Full text of other abbreviations

Carc.	:	Carcinogenicity
Self-heat.	:	Self-heating substances and mixtures

Further information

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN

End of Safety Data Sheet