

## MATERIAL SAFETY DATA SHEET

Print date: 08-Oct-2008

Revision Number: 1

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

<b>Trade Name:</b>	LEXAN*
<b>Product Name:</b>	LEXAN* Thermoclick*
<b>Product Description:</b>	Polycarbonate (CAS# 25971-63-5)
<b>Recommended use:</b>	May be used as received, processed or thermoformed to produce other 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>Emergency Telephone Number:</b>	+31(0)164-292911 (24/24) Bergen op Zoom
<b>E-mail:</b>	webinquiries@sabic-ip.com

### 2. HAZARDS IDENTIFICATION

<b>Skin Contact:</b>	Not likely to cause irritation.
<b>Eye Contact:</b>	No eye irritation.
<b>Inhalation:</b>	Inhalation unlikely due to physical form.
<b>Ingestion:</b>	Ingestion not likely due to physical form.
<b>Other Information:</b>	Hazardous fumes can also occur in post-processing operations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.
<b>Skin Contact:</b>	Not applicable.
<b>Eye Contact:</b>	Not applicable.
<b>Ingestion:</b>	No hazards which require special first aid measures.
<b>Precautions:</b>	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</b>	
<b>upper:</b>	Not applicable
<b>lower:</b>	Not applicable
<b>Suitable Extinguishing Media:</b>	Water spray mist or foam.
<b>Extinguishing Media not be used for Safety Reasons:</b>	Carbon dioxide and dry chemical are not recommended because their lack of cooling capacity may permit re-ignition.
<b>Hazardous decomposition products:</b>	Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbons fragments.
<b>Special Protective Equipment for Firefighters:</b>	In the event of fire, wear self-contained breathing apparatus (NEN-EN137).
<b>Specific Hazards:</b>	Take precautionary measures against static discharges. 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.
<b>Personal Precautions:</b>	See section 8.
<b>Environmental Precautions:</b>	Should not be released into the environment.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery.
<b>Storage:</b>	Keep tightly closed in a dry and cool place. Keep away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Measures to Reduce Exposure:</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Hand Protection:</b>	Protective gloves, NEN-EN 374.
<b>Eye Protection:</b>	Not required under normal use.
<b>Respiratory Protection:</b>	In the case of hazardous fumes, wear self contained breathing apparatus In case of insufficient ventilation wear suitable respiratory equipment (NEN-EN149).
<b>Skin and Body Protection:</b>	Long sleeved clothing (NEN-EN 340-369-465).
<b>Hygiene Measures:</b>	Do not eat, drink or smoke at work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Sheets
<b>Color:</b>	Various
<b>Odor:</b>	None
<b>Melting point/range:</b>	Various
<b>Autoignition Temperature:</b>	630°C (1166°F) estimated
<b>Vapor Pressure:</b>	Negligible
<b>Water Solubility:</b>	Insoluble
<b>Evaporation Rate:</b>	Negligible
<b>Specific gravity:</b>	>1; (water =1)
<b>VOC content(%):</b>	Negligible
<b>Explosive Limits</b>	
<b>upper:</b>	Not applicable
<b>lower:</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable at normal conditions. Hazardous polymerisation does not occur.
<b>Conditions to Avoid:</b>	Do not expose to temperatures above 200 °C. Heating can release hazardous gases.
<b>Hazardous Decomposition Products:</b>	Traces of phenol, alkylphenols, diarylcarbonates, 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 data available
<b>Primary Irritation:</b>	Substance does not generally irritate and is only mildly irritating to the skin
<b>Remarks:</b>	The toxicological data has been taken from products of similar composition

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity Effects:</b>	None expected for this article.
<b>Other Information:</b>	Ecological damages are not known or expected under normal use.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste from residues / unused products:</b>	Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
<b>EWC waste disposal no:</b>	702 - waste from the mfsu of plastics, synthetic rubber and man-made fibres

## 14. TRANSPORT INFORMATION

<b>Transport Classification:</b>	Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.
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ADR/RID/ADNR

IMDG

ICAO

IATA-DGR

## 15. REGULATORY INFORMATION

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC.

R -phrase(s)

S -phrase(s)

## 16. OTHER INFORMATION

### Text of R Phrases mentioned in Section 3

LEXAN\* is a registered trademark of SABIC Innovative Plastics BV

**Prepared by:**

Product Stewardship & Toxicology.

This publication provides information and guidelines for safe handling and processing of SABIC Innovative Plastics' products and is based on currently available experience and knowledge. It is not designed as a comprehensive product performance data sheet, nor as a guide to application possibilities of our materials.

Users should follow all applicable local regulations governing Health and Safety at work, and are requested to pass this publication on to all relevant employees and customers.

**End of Material Safety Data Sheet**