



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **LEXAN 9034**
 Identity: Thermoplastic polymer sheet
 Chemical name: Bisphenol A Polycarbonate

SUPPLIER

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HAZARD(S) IDENTIFICATION

CAUTIONS!

Melted products are flammable and produce intense heat and dense smoke during burning. Irritating gases/fumes may be given off during burning or thermal decomposition. May cause mechanical irritation (abrasion). Contact with hot material will cause thermal burns.

Potential Health effects

Primary Routes of Entry: Inhalation, Skin Contact, Eye Contact
 Medical Conditions Aggravated by Exposure: Respiratory disorders

Human Effects and Symptoms of Overexposure:

Skin: Acute Skin
 Contact with heated material can cause thermal burns.

Eye: Acute eye
 May cause mechanical irritation.

General effects of Exposure: Acute Effects of Exposure
 Gases and fumes evolved during the thermal processing or decomposition of this material may irritate the eyes, skin or respiratory tract.
Chronic Effects of Exposure
 Not expected to cause any adverse chronic health effects.

Carcinogenicity: No Carcinogenic substances as defined by IARC, NTP and/or OSHA

HMIS Rating:

Health	0
Flammability	1
Physical hazard	0

COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components: This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Other ingredients: Additional types of polycarbonate may be used as necessary to adjust the melt flow rate.

PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Odor:	Slight
pH:	Not applicable
Melting point:	220 – 230 °C (428 – 446 °F)
Boiling Point/Range:	Not applicable
Flash Point:	> 450 °C (> 842 °F)
Lower Explosion Limit:	Not Established
Upper Explosion Limit:	Not Established
Vapor Pressure:	Not applicable.
Specific Gravity:	Approximately 1.2
Solubility in water:	Insoluble
Auto Ignition Temperature:	> 450 °C (> 842°F)
Decomposition Temperature:	380 °C (716°F)
Softening Point:	150 – 160 °C (302 – 320°F)
Bulk Density:	38 – 42 lb/ft ³

FIRST-AID MEASURES

Inhalation:	If inhaled, remove to fresh air.
Skin contact:	In case of skin contact, wash affected areas with soap and water. Get medical attention if thermal burn occurs.
Eye contact:	In case of skin contact, flush eyes with plenty of lukewarm water.
Ingestion:	Get medical attention

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water, foam, dry chemical, carbon dioxide (CO ₂)
Special Fire Fighting Procedures:	Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
Unusual Fire/Explosion Hazards:	Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Dust may form explosive mixtures with air.

ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures:	If molten, allow material to cool place into an appropriate marked container for disposal.
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HANDLING AND STORAGE

Storage temperature Maximum:	93 °C (199.4 °F)
Storage Period:	Not Established
Handling/Storage Precautions:	Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Avoid breathing dust.
Further Info on Storage conditions:	Protect equipment (e.g. storage bins, conveyors, dust collectors) with explosion vents

EXPOSURE CONTROLS / PERSONAL PROTECTION

Country specific exposures limits have not been established or are not applicable	
Respiratory protection:	Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m ³ – total dust, 5 mg/m ³ – respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m ³ – respirable particles and 10 mg/m ³ – inhalable particles for particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)
Hygiene / Ventilation:	General dilution and local exhaust to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne

concentration standards / guidelines, especially during cutting, grinding and high heat operations.

Hand protection: Wear heat resistant gloves when handling molten material.

Eye protection: Safety glasses with side-shields.

Skin and body protection: No special skin protection requirements during normal handling and use.

Additional Protective Measures: Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this products. Purging should be collected as small flat thin shapes or thin strands to allow for rapid cooling

STABILITY AND REACTIVITY

Hazardous reactions: Hazardous polymerization does not occur

Stability: Stable

Materials to avoid: None know

Conditions to avoid: None know

Hazardous decomposition products: By Fire and Thermal Decomposition: Carbon Dioxide; Bisphenol A; Phenol; Carbonic Acid; Diphenyl Ester; Carbon monoxide; Hydrocarbons; phenol derivatives

TOXICOLOGICAL INFORMATION

No information available

ECOLOGICAL INFORMATION

No information available

DISPOSAL CONSIDERATIONS

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental control laws.

TRANSPORT INFORMATION

Land transport (DOT): Non-Regulated

Sea transport (IMDG): Non-Regulated

Air transport (ICAO / IATA): Non-Regulated

OTHER INFORMATION

The information provided in this Health & Safety Data Sheet is based on our current knowledge. While the information and recommendations set forth herein are believed to be accurate, Industries 3R takes no warranty with respect thereto and disclaims all liability in reliance thereon. We recommend testing according to local conditions. The specifications are subject to change without notice.