



Expect Service

Radiation Products Design Inc

SAFETY DATA SHEET

RPD INFORMATION

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RAW MATERIAL INFORMATION

LEXAN

MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trade Name:	LEXAN* Sheet
Product ID:	9034 -112
Product Description:	Poly (bisphenol-A-carbonate) [CASRN 111211-39-3 or 103598-77-2] Sheet
Product Type:	Commercial Product
Recommended use:	May be used as received, processed or thermoformed to produce other articles, or as a component of other industrial products.
Company:	SABIC Innovative Plastics One Plastics Avenue Pittsfield, MA 01201 USA (413) 448-5400 www.sabic-ip.com
Emergency Telephone Number:	800/447-4545
Emergency Transportation/CHEMTREC (24 HOUR)	800/424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polymers which are not expected to be hazardous.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- Plastic film or sheet
- 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.

HMIS Rating

Health: 0

Flammability: 1

Reactivity: 0

Skin contact:

Not likely to cause irritation.

Eye Contact:

Resin particles, like other inert materials, are mechanically irritating to eyes.

Inhalation:

Inhalation unlikely due to physical form.

Ingestion:

Ingestion not likely due to physical form.

Chronic Information

Resin Issues:

Processing fumes may cause irritation to the eyes, skin, and respiratory tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing fume 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

4. FIRST AID MEASURES

Inhalation:

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Skin Contact:

Wash with water and soap as a precaution. Get medical attention if irritation develops or persists. For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

Eye Contact:

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.

Ingestion:

No hazards which require special first aid measures.

Precautions:

Processing fumes inhalation may be irritating to the respiratory tract. If symptoms are experienced remove victim from the source of contamination or move victim to fresh air and obtain medical advice.

5. FIRE-FIGHTING MEASURES

Explosive Limits

upper:

Not applicable

lower:

Not applicable

Suitable Extinguishing Media:

Water spray mist or foam.

Extinguishing media which must not be used for safety reasons:

Carbon dioxide and dry chemical are not recommended because their lack of cooling capacity may permit re-ignition.

Hazards from Combustion Products:

Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments

Special Protective Equipment for Firefighters:

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Specific Hazards:

Take precautionary measures against static discharges. Thermal decomposition can lead to release of irritating gases and vapors. Dust formed by operations such as cutting or grinding may form an explosive mixture in air.

6. ACCIDENTAL RELEASE MEASURES

Clean up:

Gather and store in a closed container pending a recyclability or waste disposal evaluation.

Personal Precautions:

See section 8.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Accumulation of waste films, sheets and/or masking may create a slipping hazard.

Storage:

Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures to Reduce Exposure:

Handle in accordance with good industrial hygiene and safety practice. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.

Hand Protection:

Protective gloves

Eye Protection:

Safety glasses

Respiratory Protection:

When using this product at elevated temperatures, implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors, acid gases and particulate matter) if processing fumes are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

Skin and Body Protection:

Long sleeved clothing

Hygiene Measures:

When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Solid

Appearance:

Sheet or film

Color:

Various

Odor:

None or slight

Melting point/range:

This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.

Explosive Limits

upper:

Not applicable

lower:

Not applicable

10. STABILITY AND REACTIVITY

Stability:

Stable at normal conditions. Hazardous polymerization does not occur.

Conditions to Avoid:

Do not exceed melt temperature recommendations in product literature.

Hazardous Decomposition Products:

Processing fumes evolved at recommended processing conditions may include trace levels of hydrocarbon fragments, phenol, alkylphenols, diarylcarbonates.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD50/oral/rat:	>5000 mg/kg, estimated
LD50/dermal/rabbit:	>2000 mg/kg, estimated
Inhalation:	Inhalation unlikely due to physical form.
Eye Contact:	Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin contact:	Not likely to cause irritation.
Ingestion:	Ingestion not likely due to physical form.
Chronic Toxicity:	No information available
IARC:	Not Listed
OSHA:	Not regulated
NTP:	Not tested
Remarks:	The toxicological data has been taken from products of similar composition
Special Studies:	Processing fumes from similar products are not considered toxic. In acute inhalation tests, laboratory rats were exposed to processing fumes at concentrations exaggerating those that would likely occur in workplace situations. No deaths or signs of toxicity, except transient irritancy in some cases, were noted during the 6 hour fume exposure tests. There were no distinct or consistent treatment related tissue or organ changes noted in gross necropsies.

12. ECOLOGICAL INFORMATION

Other information:	Ecological damages are not known or expected under normal use.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal:	Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.
US EPA Waste number:	None

14. TRANSPORT INFORMATION

Transport Classification:

Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

DOT

ADR/RID/ADNR

IMDG

ICAO

IATA-DGR

MEXICO

15. REGULATORY INFORMATION

International Inventories:

These film and sheet products are considered articles and thus exempt from inventory listing.

CERCLA/SARA 311/312/313:

This product is a non-hazardous article and therefore not subject to the requirements of Title III of SARA (Emergency Planning and Community Right-To-Know Act).

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS hazard class:

Non-controlled

California Proposition 65:

This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

RoHS EU Directive 2002/95/EC:

This product complies with RoHS - it does not intentionally contain banned chemicals.

16. OTHER INFORMATION

LEXAN* Sheet is a registered trademark of SABIC Innovative Plastics

Prepared by: Product Stewardship & Toxicology

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End of Material Safety Data Sheet