

MATERIAL SAFETY DATA SHEET



Bayer MaterialScience

Bayer MaterialScience LLC
Product Safety & Regulatory Affairs
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Pittsburgh, PA 15205-9741
USA

TRANSPORTATION EMERGENCY
CALL CHEMTREC: (800) 424-9300
INTERNATIONAL: (703) 527-3887

NON-TRANSPORTATION
Emergency Phone: Call Chemtrec
Information Phone: (800) 662-2927

1. Product and Company Identification

Product Name: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH
Material Number: 83901668
Chemical Family: Thermoplastic Polymer Sheet
Chemical Name: Bisphenol A Polycarbonate

2. Hazards Identification

Emergency Overview

Caution: Color: Clear Form: solid Sheet Odor: Odorless.
Melted product is flammable and produces intense heat and dense smoke during burning. Irritating gases/fumes may be given off during burning or thermal decomposition. Causes a slipping hazard if spilled. 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

For Product: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH
Contact with heated material can cause thermal burns.

Eye

Acute Eye

For Product: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH
May cause mechanical irritation.

Ingestion

Acute Ingestion

Material Name: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH

Article Number: 83901668

For Product: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH

Ingestion is not a typical route of industrial exposure.

General Effects of Exposure

Acute Effects of Exposure

For Product: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH

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

For Product: MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH

Not expected to cause any adverse chronic health effects.

Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and/or OSHA

3. 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.

4. First aid measures

Eye contact

In case of contact, flush eyes with plenty of lukewarm water.

Skin contact

Cool melted product on skin with plenty of water. Do not remove solidified product. Get medical attention if thermal burn occurs.

Inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

Ingestion

Get medical attention.

5. Firefighting measures

Suitable extinguishing media: Water fog, Dry chemical, Carbon dioxide (CO2)

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

and train employees in the safe use and handling of this product. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling.

9. Physical and chemical properties

Form: solid
Appearance: Sheet
Color: Clear
Odor: Odorless
pH: not applicable
Melting Point: 220 - 230 °C (428 - 446 °F)
Density: ca. 1.2 g/cm³ @ 20 °C (68 °F) (DIN 53479)
Solubility in Water: insoluble
Auto-ignition temperature: > 450 °C (842 °F)
Decomposition temperature: >= 380 °C (716 °F)
Fumes evolved by overheating during improperly processing or by burning may be injurious to health.
Softening point: 150 - 160 °C (302 - 320 °F)
Viscosity, dynamic: not applicable

10. Stability and reactivity

Hazardous Reactions

Hazardous polymerisation does not occur.

Stability

Stable

Materials to avoid

None known.

Conditions to avoid

None known.

Hazardous decomposition products

By Fire and Thermal Decomposition: Phenol; Carbon oxides, Hazardous decomposition products due to incomplete combustion

11. Toxicological information

Toxicity Data for MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH

Toxicity Note

No data available for this product.

12. Ecological information

Ecological Data for MAKROLON SL MATTE CLEAR-A00, SIGN MATTE / SMOOTH

Additional Ecotoxicological Remarks

No data available for this product.

The concentrations reported below in units of parts per million (ppm) or parts per billion (ppb) are maximum values.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Bisphenol A Polycarbonate	25971-63-5
>=1%	Bisphenol A Polycarbonate	CAS# is a trade secret
>=1%	Bisphenol A Polycarbonate	CAS# is a trade secret

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
1 - 5 ppm	Phenol	108-95-2
<=3 ppm	Methylene Chloride	75-09-2

California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. - Developmental toxin. - Female reproductive toxin. - Male reproductive toxin.

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
<1 ppt	Mercury	7439-97-6
<1 ppt	Cadmium	7440-43-9
<1 ppt	Arsenic	7440-38-2
5 - 10 ppt	Lead	7439-92-1
<=3 ppm	Methylene Chloride	75-09-2

16. Other information

HMIS Rating

Health	0
Flammability	1
Physical Hazard	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

* = Chronic Health Hazard

The method of hazard communication for Bayer MaterialScience LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.

Contact person: Product Safety Department
Telephone: (412) 777-2835
MSDS Number: 112000045200
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