

**SAFETY DATA SHEET**  
**OPTIX® General Purpose Acrylic Resin**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Trade Name: OPTIX® General Purpose Acrylic Resin

Other Name(s): Includes CA-41 to CA-87, MS-983

Usage: Plastic pellets for heat-molding processes (e.g., extrusion, injection-molding)

Supplier: Plaskolite, LLC.  
400 West Nationwide Boulevard, Suite 400, Columbus, Ohio 43215, USA  
Telephone: (+1) 800-848-9124  
www.plaskolite.com

Contact: BTS International b.v.  
Telephone: (+31) (0) 314 36 04 06  
E-mail: bts.international@planet.nl

Emergency Telephone: (+1) 800-848-9124

**2. HAZARDS IDENTIFICATION**

Under normal conditions of use, this product is not expected to create any unusual industrial hazards. Irritating gases/fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Characterization: > 99.5% Polymethyl methacrylate (PMMA) [CAS# 9010-88-2]  
< 0.5% Methyl methacrylate (MMA) [CAS# 80-62-6]  
< 0.1% Ethyl acrylate (EA) [CAS# 140-88-5]

**4. FIRST AID MEASURES**

Inhalation: Move subject to fresh air.

Skin Contact: If molten material contacts skin, cool rapidly with cold water and obtain medical attention for thermal burn.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion: This material is not expected to be absorbed within the gastrointestinal tract, so induction of vomiting should not be necessary.

**5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media: Carbon dioxide, dry chemical, or water.

Specific Fire Hazards: This product is a combustible thermoplastic material that burns vigorously with intense heat.

Special Protective Equipment & Precaution for Fire Fighters: Wear a self-contained breathing apparatus and full protective gear.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal Precaution: Sweep up to prevent hazard of slipping. Do not breathe vapors or dust. Provide adequate ventilation. Wear personal protection equipment.
- Environmental Precaution: Do not allow to enter into soil, waterbodies or drains.
- Methods for Cleaning Up: Avoid generation of dust. Remove all sources of ignition. Sweep or scoop up into closed containers for disposal.

**7. HANDLING AND STORAGE**

- Max. Storage Temperature: 190°F (88°C)
- Handling: Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. Avoid dust formation, and accumulation of static charges. Prohibit sources of spark and ignition, such as smoking. Processing of this product under high temperatures will cause hazardous emissions of vapors, carbon monoxide or carbon dioxide.
- Storage: If this material is stored under ambient temperature conditions, it is not hazardous. However, extensive storing at higher than the maximum temperature will emit vapors, carbon monoxide or carbon dioxide.
- Packaging Materials: Polyethylene, cardboard lined with polyethylene liner

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Limits:	ACGIH	
	TLV	STEL
1. MMA	50 ppm	100 ppm
2. EA	5 ppm	15 ppm
3. Inhalable Dust	10 mg/m <sup>3</sup>	None

- Ventilation Measures: Provide good ventilation and/or an exhaust system in the work area.
- Respiratory Protection: None required under normal conditions.
- Hand Protection: Canvas or cotton gloves.
- Eye Protection: Safety glasses with side shields (ANSI Z87.1 equivalent).
- Skin & Body Protection: Wear suitable protective clothing and boots.
- Other Protective Measures: Avoid contact of molten material with skin. Do not inhale dust particles or vapors. Keep away from sources of ignition. Wash hands before breaks and after work.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical State: Solid pellets
- Color: Clear to opaque

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Odor:	Not applicable
pH:	Not applicable
Melting Point:	150°C (300°F)
Boiling Point:	Not available
Decomposition Temperature:	Not available
Flash Point:	365°C (689°F)
Auto-ignition Temperature:	445°C (833°F)
Explosion Limits:	Not applicable
Evaporation Rate:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.19
Solubility:	Insoluble

**10. STABILITY AND REACTIVITY**

Stability:	Stable. Hazardous polymerization does not occur.
Conditions to Avoid:	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.
Materials to Avoid:	None under normal conditions of use.
Hazardous Decomposition Products:	Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.

**11. TOXICOLOGICAL INFORMATION**

This product should not be harmful under normal conditions of use.

Inhalation:	Unlikely to be harmful by inhalation under ambient temperature. Inhalation of vapors from heated product can cause nausea, headache, dizziness as well as irritation of lungs, nose, and throat.
Skin Contact:	Possible skin irritation. Contact with molten material can result in burns.
Ingestion:	Unlikely to be harmful by ingestion under ambient temperature.
Eye Contact:	This product in the form of dust can be irritating to the eyes. Vapors from heated product can irritate the eyes.
Carcinogenicity:	Thermal decomposition of this product may release very low concentrations of Ethyl Acrylate (CAS No. 140-88-5), which is listed by the International Agency for Research on Cancer (IARC) as a Group 2B carcinogen (i.e., suspect human carcinogen). However, more recent assessments (e.g., European Centre for Ecotoxicity and Toxicology of Chemicals, ECETOC, Joint Assessment of Commodity Chemicals No. 28) indicate that Ethyl Acrylate is non-carcinogenic to humans.

**12. ECOLOGICAL INFORMATION**

This product is a solid, inert product with low volatility, and is essentially insoluble in water.

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Ecotoxicity:	This product should have low toxicity to aquatic and terrestrial organisms.
Mobility:	Due to the solid nature of this product, it should have low mobility in soil.
Persistence & Degradability:	This product is non-biodegradable.
Bioaccumulation:	This solid product has a low potential for bioaccumulation.
Effect in Sewage Plants:	May be separated mechanically.

### **13. DISPOSAL CONSIDERATIONS**

Product:	This product is non-hazardous, and should be disposed of in accordance with all applicable waste regulations. It can be characterized under the European Waste Catalogue (EWC) Code 07-02-13 (Waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibers – waste plastic).
Packaging:	The packaging is also non-hazardous, and should be disposed of in accordance with all applicable waste regulations.

### **14. TRANSPORT INFORMATION**

Not subject to national and international regulations on the transport of dangerous goods.

### **15. REGULATORY INFORMATION**

REACH (EC 1907/2006):	This product is a polymer that is exempt from registration under Article 6(3) of REACH. However, its ingredients which are covered by REACH have been registered.
Dangerous Preparations Directive (1999/45/EC):	Not applicable as this product is not classified as dangerous.
EU EINECS:	Listed
US TSCA:	Listed

### **16. OTHER INFORMATION**

SDS Prepared By: Plaskolite West Environmental, Health & Safety  
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The information presented herein is believed to be factual and reliable. It is offered in good faith, but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.