PLASKOLITE, INC. 1770 Joyce Avenue Columbus, OH 43219

EMERGENCY HOTLINE:

(614) 294-3281

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Material: Plaskolite DURAPLEX® Impact Modified Acrylic Plastic

(includes DURAPLEX® Impact Modified Acrylic Sheet, Run-to-Size DURAPLEX® Acrylic Sheet, Roll Stock DURAPLEX® Acrylic

Sheet)

Chemical Name

or Synonyms: Polymethyl methacrylate

2. PRODUCT COMPONENTS

<u>COMPONENTS</u>		CAS REG. NO.	WEIGHT (%)	
1.	Polymethyl methacrylate (PMMA)	9010-88-2	93.5 (MAX)	
2.	Poly(methyl methacrylate/ butyl acrylate/styrene) (PMMA/BA/S)	27136-15-8	6.0 (MIN)	
3.	Methyl methacrylate (MMA)	80-62-6	0.5 (MAX)	

3. PHYSICAL PROPERTIES

Appearance: Clear to opaque solid

Odor: N/A Viscosity: N/A

Melting Point: 150°C/300°F

Boiling Point: N/A Vapor Pressure: N/A

Vapor Density: N/A (Air = 1)

Specific Gravity: 1.15 - 1.18 (Water =1)

pH: N/A

Solubility in Water: Negligible

Volatility: Negligible (Weight %)

Evaporation Rate: Negligible (Butyl Acetate = 1)

4. FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point: N/A

Auto Ignition Temperature: 445°C/833°F to 495°C/920°F

Upper Explosion Limit (%): N/A Lower Explosion Limit (%): N/A

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

Fire Protection Equipment: Wear self-contained, positive pressure breathing apparatus

(MSHA/NIOSH approved, or equivalent) and full protective gear.

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Unusual Fire and

Explosion Hazard: Product is combustible thermoplastic material that burns

vigorously with intense heat.

5. WORKPLACE EXPOSURE LIMITS

		OSHA_		ACGIH_	
COMF	<u>PONENTS</u>	PEL	STEL	TLV	STEL
1.	PMMA	None	None	None	None
2.	PMMA/BA/S	None	None	None	None
3.	MMA	100 ppm	None	50 ppm	100 ppm
4.	Nuisance dusts (as inhalable particle: not otherwise specifie		None	10 mg/m ³	None

not otherwise specified

6. HAZARD INFORMATION

MMA: $100 \text{ ppm} = 410 \text{ mg/m}^3$

Hazard Scale: 0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme

Health Designation: 1
Fire Designation: 1
Reactivity Designation: 0

Inhalation: Inhalation of vapors from heated product can cause nausea,

headache, dizziness as well as irritation of lungs, nose, and throat.

Eye Contact: Vapors from heated product can irritate the eyes. Ingestion: Low hazard associated with normal conditions.

Skin Contact: Possible skin irritation. Contact with molten material can result in

burns.

Carcinogenicity: N/A

7. EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air.

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.

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Skin Contact: If molten material contacts skin, cool rapidly with cold water and

obtain medical attention for thermal burn.

8. REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Temperatures over 300°C/570°F.

Hazardous Decomposition

Products: Thermal decomposition or combustion may emit vapors, carbon

monoxide, or carbon dioxide.

Incompatible Compounds: Acids, bases, and strong oxidizing agents.

9. SPILL OR LEAK INFORMATION

Sweep or scoop up and remove.

10. WASTE DISPOSAL

Landfill or incinerate at a facility that complies with local, state and federal regulations.

11. EXPOSURE CONTROLS/PERSONAL PROTECTION MEASURES

Respiratory Protection: None required under normal conditions. See Section 12.

Hand Protection: Canvas or cotton gloves.

Eye Protection: Safety glasses with side shields (ANSI Z87.1 equivalent).

Other Protection: N/A

Ventilation: Local exhaust ventilation systems should be constructed and

installed in accordance with ANSI Z9.2 or ACGIH guidelines to

control potential emissions near the source.

12. STORAGE AND HANDLING INFORMATION

Maximum Storage

Temperature: 99°C/210°F (softening temperature).

Storage Measures: If 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.

Handling Measures: Processing of the material under high temperatures will cause

hazardous emissions of vapors, carbon monoxide or carbon dioxide. Blower collecting and local exhaust ventilation systems should be installed to prevent contaminant dispersion into the air. Sawing of this product generates particulates regulated as "inert"

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or "nuisance" dusts. To minimize dust emissions, engineering controls should be employed, such as baghouse filters and cyclone separators.

13. REGULATORY INFORMATION

Environment

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): Under section 102(a) of the Act, this product is NOT designated as hazardous. In addition, no reportable quantities and no notification requirements to the National Response Center in Washington, DC are set forth for its release from a vessel, an offshore or an onshore facility (40 CFR Part 302).

Resource Conservation and Recovery Ace (RCRA):

When this product becomes a waste, it is identified as solid but NOT hazardous waste under RCRA criteria (40 CFR Part 261).

Toxic Substances Control Act (TSCA):

The components of this product are on the TSCA inventory list. Any impurities present in this product are exempt from listing.

Superfund Amendment and Reauthorization Act of 1986 (SARA) Title III:

This product may be considered an immediate (acute) health hazard due to potential MMA emissions. However, reporting of thresholds for the material is not required because the concentration of its MMA component is below the <u>de minimis</u> concentration (40 CFR Part 370).

Transportation

DOT Hazard Class:

Not regulated.

DOT Shipping Name: N/A

Labor Awareness

This product as supplied is non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, under processing conditions it may become a health hazard to employees because vapors and/or particulates could be released. See Section 12 for Storage and Handling Information.

14. GLOSSARY

ACGIH American Conference of Governmental Industrial Hygienists

CFR Code of Federal Regulations

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DOT United States Department of Transportation

mg/m³ milligrams per cubic meter(concentration)

MMA Methyl methacrylate

MSHA Mine Safety and Health Administration

N/A Not Applicable or Not Available

NIOSH National Institute for Occupational Safety and Health

OSHA Occupational Safety and Health Administration (Department of Labor)

PEL Permissible Exposure Limit (time-weighted average)

PMMA Polymethyl methacrylate

PMMA/BA/S Poly(methyl methacrylate/butyl acrylate/styrene)

ppm parts per million (concentration)

STEL Short-Term Exposure Limit (15-minute)

TLV Threshold Limit Value (time-weighted average)

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.

Please direct comments and questions to Plaskolite Environmental, Health and Safety

Filename: MSDS - Duraplex Impact Modified Acrylic Plastic.doc

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