

**DYMAX
CORPORATION**

MATERIAL SAFETY DATA SHEET

PRODUCT GB-209MC

51 Greenwoods Rd., Torrington, CT 06790

Phone: (860) 482-1010

Fax: (860) 482-1308

I. Product Identification.

| | | | |
|-----------|-------------------------------|------------------|------------------|
| Product: | GB-209MC | <u>NFPA Est.</u> | <u>HMIS Est.</u> |
| Synonyms: | Polyurethane Oligomer Mixture | Health: 2 | Health: 2 |
| | | Fire: 1 | Flam: 1 |
| | | React: 1 | React: 1 |

II. Composition.

| <u>Ingredient</u> | <u>Concentration %</u> | <u>C.A.S. number</u> | <u>ACGIH TLV</u> |
|---------------------------|------------------------|----------------------|------------------|
| High Boiling Methacrylate | 31-41 | PROPRIETARY | -- |
| Polyurethane Oligomer | 31-41 | PROPRIETARY | -- |
| Acrylic Impact Modifier | 7-15 | 25852-37-3 | -- |
| Maleic Acid | 1-4 | 110-16-7 | -- |
| Acrylic Acid | 1-5 | 79-10-7 | 2 ppm |
| Photoinitiator | 1-4 | 24650-42-8 | -- |
| Amorphous Fumed Silica | 7-14 | 112945-52-5 | -- |
| t-Butyl Perbenzoate | 1-4 | 614-45-9 | -- |

III. Chemical and Physical Properties.

| | | | |
|----------------------|------------------|-------------------|------------------|
| Vapor Pressure: | 6 mm Hg at 30° C | Vapor Density: | Heavier than Air |
| Solubility in Water: | Insoluble | Specific Gravity: | 1.15 |
| Boiling Point: | N. A. | Appearance: | Amber Liquid |
| Odor: | Mild | | |

IV. Flammability and Explosive Properties.

| | | | |
|---|---|-------------------------------|------|
| Flash Point: | > 200° F (P.M.C.C.) | | |
| Recommended Extinguishing Agents: | Use water spray, foam, dry chemical, or CO ₂ | | |
| Hazardous Products Formed by Fire or Thermal Decomposition: | Toxic fumes (oxides of carbon and nitrogen) may be evolved upon exposure to heat or open flame. | | |
| Unusual Fire or Explosion Hazards: | None. | | |
| Compressed Gases: | None. | Pressure at Room Temperature: | N.A. |

V. Reactivity Data.

| | | | |
|-------------------------|--|---------------------------|------------|
| Stability: | Stable. | Hazardous Polymerization: | May occur. |
| Hazardous Decomp. Prod: | None. | | |
| Incompatibility: | Oxidizers, amines, strong Lewis or mineral acids, thiosulfates. Smoke and toxic fumes may be evolved as a result of uncontrolled exothermic reaction of large masses of material reacting with curing agents, such as peroxides, amines, or exposure to light. | | |

VI. Spill or Leak Procedures.

Dike area to prevent spreading. Absorb on vermiculite, sand or other inert absorbing material. Dispose of as a chemical waste in accordance with current local, state, and federal regulations.

**DYMAX
CORPORATION**

MATERIAL SAFETY DATA SHEET

PRODUCT GB-209MC

VII. Storage and Handling Procedures.

Storage: Avoid storage over 100° F, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

Handling: Avoid prolonged or repeated breathing of vapor.

VIII. Shipping Regulations.

DOT and IATA Hazard Classification: Not Restricted Article
Proper DOT Shipping Name: Not Applicable
Identification Number: DOT – None IATA – None

IX. Emergency Treatment Procedures.

Eye Irritation: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact: In case of skin contact, wash thoroughly with soap and water. Do not use organic solvents for cleanup as they may dry or irritate the skin and act as a carrier for chemical absorption.
Inhalation: Remove affected person to fresh air.
Ingestion: Low toxicity; Get medical attention.

X. Personal Protection.

Respiratory: Positive fresh air exhaust should be provided in the work area; respiratory equipment is unnecessary in normal use.
Skin: Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely.
Eyes: Do not wear contact lenses. Chemical safety goggles are recommended.

XI. Health Hazard Data.

Potential Routes of Entry: Skin, eyes, inhalation.
Symptoms of Overexposure: Possible skin and eye irritation on contact. Inhalation of vapors in an unventilated area may, over time, induce headaches.

Exposure Limits: ACGIH OSHA OTHER
(TLV) (PEL)

Ingredients
Acrylic Acid 2 ppm -- --

| | <u>Target Organs:</u> | <u>Carcinogen:</u> | | |
|---------------------------|-----------------------|--------------------|-------------|-------------|
| | | <u>NTP</u> | <u>IARC</u> | <u>OSHA</u> |
| High Boiling Methacrylate | -- | NO | NO | NO |
| Polyurethane Oligomer | -- | NO | NO | NO |
| Acrylic Impact modifier | -- | NO | NO | NO |
| Maleic Acid | -- | NO | NO | NO |
| Acrylic Acid | -- | NO | NO | NO |
| Photoinitiator | -- | NO | NO | NO |
| Amorphous Fumed Silica | -- | NO | NO | NO |
| t-Butyl Perbenzoate | -- | NO | NO | NO |

Abbreviations:
N/A – Not Applicable ALG – Allergen
IRR – Irritant KID – Kidney
LIV – Liver REP – Reproductive

**DYMAX
CORPORATION**

MATERIAL SAFETY DATA SHEET

PRODUCT GB-209MC

XII. Regulatory Information.

SARA Listed Ingredients:
ACRYLIC ACID

TSCA Inventory: All Ingredients

STATE RIGHT-TO-KNOW

California Proposition 65

This product does not contain materials which the State of California has found to cause cancer, birth defects, or other reproductive harm.

Massachusetts Right-to-know, Substance List (MSL) Hazardous Substances and Extraordinary Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

** NONE **

Pennsylvania Right-to-know, Hazardous Substance List Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products. Components present in this product at a level, which could require reporting under the statute, are:

** NONE **

Other Regulatory Information:

** NONE **

Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.
TLV = Threshold Limit Value.
PEL = Permissible Exposure Limit.
NTP = National Testing Program.
IARC = International Agency for Research on Cancer.
NFFPA = National Fire Protection Association.
HMIS = Hazardous Materials Identification System.
- - = No Data / Not Available.

XIII. Preparation Information.

Prepared By: Stephen E. Cantor, Ph.D.
Title: Laboratory Manager
24 Hr. Telephone: CHEMTREC 1-800-424-9300

REVISION DATE: FEBRUARY 28, 2002

To the best of our knowledge, the information contained herein is accurate. However, Dymax Corporation does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

