Laboratoires ST-ANTOINE
Fabricant de produits chimiques spécialisés



MATERIAL SAFETY DATA SHEET

**SPECIALTY FILLERS**

## SECTION I - PRODUCT IDENTIFICATION

Product trade number and name: GM-10,GM-40 GELMAT

Product use: Auto body filler and fiber piece reparation

Emergency telephone: **Canutec (613) 996-6666**

## SECTION II - HAZARDOUS INGREDIENTS

| Ingredients | Cas# | % | CL 50ppm (rat, inh.) | DL 50mg/kg (rat. orale) |
|---|---|---|---|---|
| Styrene | 100-42-5 | 40-50 | 2800 | 5000 |

## SECTION III - PHYSICAL DATA

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| Odour : | Aromatic odour of styrene monomer |
| Appearance : | Dark fibrous gel |
| Odour threshold : | 0.1 ppm (styrene) |
| Specific gravity : | 1.1 - 1.6 |
| Vapour pression (mmg hg) : | 4.5 @ 20°C (styrene) |
| Vapour density (air = 1): | >1 (styrene) |
| Coefficient of water/oil distribution | N/A |
| Boiling point : | 145.2°C (293.4°F) |
| Freezing point : | Thickened gradually |
| P.H.: | N/A |
| Solubility in water : | Negligible |
| Volatile (%) : | 33%(p/p) (styrene) |

## SECTION IV - FIRE AND EXPLOSION DATA

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| Conditions of flammability : | Flammable material. May be easily ignited at ambient temperatures. Vapor can travel along ground and accumulate in low areas. |
| Means of extinction: | Water spray, foam, dry chemical, carbon dioxide or any class B extinguishing agent. |
| Flashpoint (□C) & method: | 29.4 °C (84.9°F). SetaFlash Closed Cup. |
| Upper flammable limit (%by volume) : | 6.1 (styrene) |
| Lower flammable limit (%by volume) : | 1.1 (styrene) |
| Auto-ignition temperature : | 490 °C (styrene) |
| Hazardous combustion products: | Burning on result in the formation of carbon monoxide, carbon dioxide and other toxic or irritating gases. |

## SECTION V - REACTIVITY DATA

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| Stability: | Normally unstable. Styrene polymerizes slowly and oxidizes on exposure to air and light. At elevated temperatures, such as may occur during a fire, rapid polymerization may take place. If this occurs in a closed container, the container may explode. |
| Incompatible materials : | Strong oxidizing agents such as nitric acid, strong acids, metal hydrides, iron chlorides. |
| Conditions of reactivity : | Hazardous polymerization may occur at high temperatures. Product will not react with water. |
| Hazardous decomposition products : | Heating material until it decomposes may cause the formation of carbon monoxide, carbon dioxide and irritating gases. |

## SECTION VI - TOXICOLOGICAL PROPERTIES

" Routes of exposure and acute effects "

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| LD 50 of material : | N/A |
| LO 50 of material : | N/A |
| Exposure limit: | ACGIH-TLV-TWA: 50 ppm (styrene) |
| Inhalation : | Vapor may cause irritation of nose and throat. Higher concentrations of vapor may cause headache, nausea, fatigue, dizziness, loss of balance. Increased reaction time and other effects on the central nervous system. |
| Skin: | Prolonged or frequent skin contact may cause defatting and dry of the skin leading to irritation and possible dermatitis. Swelling surrounding tissues frequently will accompany irritation. Styrene may be absorbed through the skin in toxic amounts, leading to symptoms similar to inhalation. |
| Eyes : | Vapors may cause irritation. Contact with the uncured material may cause irritation and tearing, even slight reversible corneal damage. Mechanical damage (scratching) is possible from solids in the material. |
| Ingestion: | Causes gastrointestinal disturbances, pain nausea and discomfort. Large amounts may cause symptoms similar to inhalation. |
| Chronic effects : | Carcinogencity, styrene is listed as a possible human carcinogen by IARC as a possible human carcinogen, but amorphous silica is not considered hazardous. |
| Other effects: | Some evidence of mutagenicty and reproductive toxicity, but insufficient to confirm. |
| Sensitization to material : | May cause skin and respiratory sensitization. |
| Synergistic material : | N/A |

" FIRST AID "

| | |
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| Inhalation : | Important. Ensure your own safety before attempting rescue, by wearing appropriate protective equipment. Remove victim for fresh air. If breathing has stopped, give artificial respiration. Obtain medical attention immediately. |
| Skin : | Avoid direct contact with the material. As quickly as possible, flush contaminated area |

with lukewarm gently flowing water, non-abrasive soap may be used to speed removal of styrene. While under running water, remove all contaminated clothing, shoes and leather goods. Wash for at least 20 minutes, until all material has been removed from the skin. Obtain medical attention immediately. Destroy or completely decontaminate clothing.

Eyes : Immediately flush affected eye with lukewarm, gently flowing water for at least 15 minutes, holding eyelids open, until all material has been removed from eye. Obtain medical attention immediately.

Ingestion : DO NOT INDUCE VOMITING. Have victim drink 1-2 glasses of water to dilute material in stomach. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. If vomiting occurs naturally, have victim lean forward to reduce risk of aspirating material into lungs. After vomiting, have victim drink more water. Begin artificial respiration immediately if victim is not breathing. Provide general supportive measures ( rest, warmth and comfort ). Obtain medical attention immediately.

## SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES

Spill, leak or lease: Restrict access to area to trained personal. Only trained personal should be involved in clean-up. Wear protective equipment. Remove all sources of ignition. Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite, or sand, and place material into a closed container for disposal. Wash area with an aqueous solution of trisodium phosphate. Prevent material from entering water system or sanitary sewers.

Waste disposal : Comply with all federal, provincial and local regulations regarding disposal.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory protection : Wear a chemical cartridge-type respirator with organic vapor cartridges if vapors exceed the TLV. Use an air-supplied mask for concentrations above 2% or unknown levels. If you have to sand this product, wear a NIOSH/MSHA approved to stop asbestos particle.

Ventilation : General ventilation is usually adequate, use local if the TLV is exceeded.

Protective gloves : PVA (polyvinyl alcohol), Viton, polyethylene.

Eyes protection : Chemical safety glasses with side shields, or chemical safety goggles.

Other protective Equipment : Wear protective work clothing to prevent skin contact. Maintain an eyewash station and safety shower in the work area.

## SECTION IX - SPECIAL PRECAUTIONS

Handling procedures and equipment : Keep away from heat, sparks and flame. Use in a well ventilated area, and avoid prolonged or repeated inhalation of vapors. Avoid skin or eye contact. Wear appropriate protective equipment when handling. Keep containers tightly closed when not in use.

Storage : Store in a cool, well-ventilated area, out of direct sunlight and away from incompatible materials and any source of ignition. Ventilation fans and electrical equipment should be non-sparking.

## SECTION X - ADDITIONAL INFORMATION

Transportation and labeling classification:

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| Description : | laminating resin (styrene)<br>Class 3.3 (9.2) UN 1866 PG III<br>Synthetic resin solution |
| Application : | Road, Rail |
| D.G. label : | Flammable 3 |
| Other : | Air - as above Class 3;<br>Marine - show F.P. 32$^{o}$C on bill of lading as well. |
| SIMDUT classification : | D2A, D2B, B2,F |

## SECTION XI - PREPARATION DATE OF MSDS

Prepared by : Les Laboratoiires St-Atnoine
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