

8337

SPEAKER SERVICE CEMENT

Safety Data Sheet

Section 1: Product and Company Identification

Product Identifier and Other Means of Identification

Product Name: 8337**Other Means of Identification:** Speaker Service Cement**Related Part #** 8337-55ML, 8337-1G

Recommended Use and Restriction on Use

Use: Adhesive for speaker repair**Uses Advised Against:** Not applicable

Details of Manufacturer or Importer

ManufacturerMG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADAMG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA**☎** +1-800-340-0772**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number




For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call CHEMTREC at **+1-800-424-9300****For emergencies involving the transport of dangerous goods;** 24/7 service
CANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

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Section 2: Hazard(s) Identification
Classification of Hazardous Chemical
GHS Categories

| Criteria | Category | Signal Word | Pictograms |
|---|----------|-------------|-------------|
| Flammable Liquid | 2 | Danger | Flame |
| Germ Cell Mutagenicity | 2 | Warning | Health |
| Eye Irritation | 2 | Warning | Exclamation |
| Specific Target Organ Toxicity Single Exposure | 3 | Warning | Exclamation |

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

Label Elements

| | |
|---|--|
| Signal Word | DANGER |
| Pictograms | Hazard Statements |
|  | H225: Highly flammable liquid and vapor |
|  | H341: Suspected of causing genetic defects |
|  | H319: Causes serious eye irritation H336: May cause drowsiness or dizziness |

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Continued...

| Prevention | Precautionary Statements |
|--------------------|--|
| P102 | Keep out of reach of children. |
| P201, P202 | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241, P243 | Use explosion-proof electrical, ventilating, and lighting equipment. Take action to prevent static discharges. |
| P261, P271 | Avoid breathing mist, vapors, and spray. Use only outdoors or in a well-ventilated area. |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves, protective clothing, and eye protection. |
| Response | Precautionary Statements |
| P370 + P378 | In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. |
| P308 + P313 | IF exposed or concerned: Get medical advice or attention. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice or attention. |
| P304 + P340, P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell. |
| Storage | Precautionary Statements |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| Disposal | Precautionary Statements |
| P501 | Dispose of contents in accordance to local, regional, and international regulations. |

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Hazards Not Otherwise Classified

| Other Criteria | Hazard Statements/Precautionary Statement | Signal Word | Pictograms |
|----------------|---|-------------|------------|
| Defats skin | Repeated exposure may cause skin dryness or cracking. | None | None |

Section 3: Composition/Information on Ingredients

| CAS # | Chemical Name | %(weight) |
|-------------|-------------------|-----------|
| 67-64-1 | acetone | 68% |
| 108-95-2 | phenol | 2% |
| 112945-52-5 | silica, amorphous | 2% |
| 95-48-7 | o-cresol | 0.4% |
| 1333-86-4 | carbon black | 0.2% |

Section 4: First-Aid Measures

| <i>Exposure Condition</i> | <i>GHS Code: Precautionary Statement</i> |
|-----------------------------|---|
| IF ON SKIN (or hair) | P303 + P361 + P353, P308 + P313 |
| Immediate Symptoms | <i>dry skin</i> |
| Response | Take off immediately all contaminated clothing. Rinse skin with water or shower. IF exposed or concerned: Get medical advice or attention. |
| IF IN EYES | P305 + P351 + P338, P337 + P313 |
| Immediate Symptoms | <i>severe irritation, redness, blurred vision, pain</i> |
| Response | Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |

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| | |
|---------------------------|--|
| IF INHALED | P304 + P340, P312, P308 + P313 |
| Immediate Symptoms | <i>cough, sore throat, nausea, headache, drowsiness, dizziness, unconsciousness</i> |
| Response | Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell. IF exposed or concerned: Get medical advice or attention. |
| IF SWALLOWED | P301 + P330, P331, P308 + P313 |
| Immediate Symptoms | <i>nausea, vomiting, cough, sore throat, headache, drowsiness, dizziness, unconsciousness</i> |
| Response | Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get medical advice or attention. |

Section 5: Fire-Fighting Measures

| | |
|----------------------------|--|
| Extinguishing Media | In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers. |
| Specific Hazards | The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion. |
| Combustion Products | Produces carbon oxides (CO, CO ₂). |
| Fire-Fighter | Wear self-contained breathing apparatus and full fire-fighting turn-out gear. |

Section 6: Accidental Release Measures

| | |
|----------------------------------|---|
| Personal Protection | See personal protection equipment in Section 8. |
| Precautions for Response | Avoid breathing mist, spray, and vapors. Remove or keep away all sources of ignition or extreme heat. |
| Environmental Precautions | Prevent spill from entering drains and waterways. |
| Containment Methods | Contain with inert absorbent (such as soil, sand, vermiculite). |
| Cleaning Methods | Collect the liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Use soap and water to remove the last traces of residue. RECOMMENDATION: Use a grounded stainless steel or carbon steel container. |
| Disposal Methods | Dispose of spill waste according to Section 13. |

Section 7: Handling and Storage

| | |
|-------------------|---|
| Prevention | Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, and lighting equipment. Ground and bond container and receiving equipment. Take action to prevent static discharges. Keep container tightly closed. Avoid breathing vapors, mist, and spray. Use only outdoors or in a well-ventilated area. |
| Handling | Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. |
| Storage | Store in a well-ventilated area. Keep cool. Store locked up. |

Section 8: Exposure Controls/Personal Protection
Substances with Occupational Exposure Limit Values

| Chemical Name | Country | Long Term Exposure Limits (PEL) | Short Term Exposure Limits (STEL) |
|----------------------|-----------------|--|--|
| acetone | ACGIH | 500 ppm | 750 ppm |
| | U.S.A. OSHA PEL | 1 000 ppm | Not established |
| | Canada AB | 500 ppm | 750 ppm |
| | Canada BC | 250 ppm | 500 ppm |
| | Canada ON | 500 ppm | 750 ppm |
| | Canada QC | 750 ppm | 1 000 ppm |
| phenol ^{a)} | ACGIH | 5 ppm (Skin) | Not established |
| | U.S.A. OSHA PEL | 5 ppm (Skin) | Not established |
| | U.S.A (WEEL) | 5 ppm (Skin) | Not established |
| | Canada AB | 5 ppm (Skin) | Not established |
| | Canada BC | 5 ppm (Skin) | Not established |
| | Canada ON | 5 ppm (Skin) | Not established |
| amorphous silica | ACGIH | Not established | Not established |
| | U.S.A. NIOSH | 20 mppcf ^{b)} | Not established |
| | Canada AB | 10 mg/m ³ | Not established |
| cresol, all isomers | ACGIH | 20 mg/m ³ | Not established |
| | U.S.A. OSHA PEL | 22 mg/m ³ | Not established |
| | Canada AB | 22 mg/m ³ | Not established |
| | Canada BC | 10 mg/m ³ | Not established |
| | Canada ON | 5 ppm | Not established |
| | Canada QC | 22 mg/m ³ | Not established |
| carbon black | ACGIH | 3.5 mg/m ³ | Not established |
| | U.S.A. OSHA PEL | 3.5 mg/m ³ | Not established |
| | Canada AB | 3.5 mg/m ³ | Not established |
| | Canada BC | 3 mg/m ³ | Not established |
| | Canada ON | 3.5 mg/m ³ | Not established |
| | Canada QC | 3.5 mg/m ³ | Not established |

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Skin—can be absorbed through the skin.

b) Millions of particles per cubic foot air, based on impinge samples counted by light-field technique.

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SPEAKER SERVICE CEMENT**Engineering Controls****Ventilation**

Keep airborne concentrations below the occupational exposure limits (OEL).

Because amorphous silica and carbon black are bound to the liquid mixture, it does not present an airborne hazard under normal use.

Personal Protective Equipment**Eye protection**

Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection (side shields).

Skin Protection

For likely contacts, use of protective butyl rubber, fluorinated rubber, or other chemically resistant gloves.

For incidental contacts, use neoprene, natural latex rubber, or other chemically resistant gloves.

Respiratory Protection

For over-exposures up to 10 x OEL of mist, vapors and spray, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

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Section 9: Physical and Chemical Properties

| | | | |
|--|---------------------|--|-----------------------|
| Physical State | Liquid | Lower Flammability Limit ^{b)} | 2.5% |
| Appearance | Black | Upper Flammability Limit ^{b)} | 12.8% |
| Odor | Ketone-like | Vapor Pressure @20 °C ^{b)} | 217 hPa [182 mmHg] |
| Odor Threshold | Not available | Vapor Density ^{a)} | 2.01 (Air = 1) |
| pH | Not available | Relative Density @25 °C | 0.86 |
| Freezing/Melting Point | Not available | Solubility in Water | Miscible |
| Initial Boiling Point ^{a)} | ≥56 °C [≥133 °F] | Partition Coefficient n-octanol/water | Not available |
| Flash Point ^{a)} | -17°C [1.4 °F] | Auto-ignition Temperature ^{a)} | 465 °C [869 °F] |
| Evaporation Rate ^{a)} | >3 (ButAc = 1) | Decomposition Temperature | Not available |
| Flammability (solid, gas) | Not applicable | Viscosity @25 °C | >3 500 cP |

a) Based on the acetone component

b) Based on Raoult's Law and LeChatelier Principle

Section 10: Stability and Reactivity

| | |
|----------------------------|--|
| Reactivity | Acetone reacts exothermically with phosphorous oxychloride, which can lead to an explosion. |
| Chemical Stability | Chemically stable at normal temperatures and pressures |
| Conditions to Avoid | Avoid flames, sparks, other ignition sources and incompatible substances. |
| Incompatibilities | Phosphorous oxychloride, strong oxidizing agents, strong bases |
| Polymerization | Will not occur |
| Decomposition | Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5. |

Section 11: Toxicological Information
Summary of Effects and Symptoms by Routes of Exposure

| | |
|-------------------|---|
| Eyes | Causes redness, serious eye irritation, blurred vision and pain. |
| Skin | May cause dry skin. |
| Inhalation | May cause cough, sore throat, nausea, headache, and drowsiness, dizziness. Severe overexposure may lead to unconsciousness. |
| Ingestion | May cause cough, sore throat, nausea, headache, and drowsiness, dizziness. Severe overexposure may lead to unconsciousness. |
| Chronic | Prolonged or repeated exposure may cause skin dryness, cracking, as well as defatting the skin. |

Acute Toxicity (Lethal Exposure Concentrations)

| Chemical Name | LD50 oral | LD50 dermal | LC50 inhalation |
|---|--------------------|-----------------------|------------------------|
| acetone | 5 800 mg/kg Rat | 7 426 mg/kg Rabbit | 16 000 ppm 4 h Rat |
| phenol | 650 mg/kg Rat | 660 mg/kg Rat | 0.316 mg/L 4 h Rat |
| silica, amorphous, fumed, crystal-free | Not available | Not available | Not available |
| o-cresol | 121 mg/kg Rat | 1 380 mg/kg Rabbit | Not available |
| carbon black | >15 g/kg Rat | >3 g/kg Rabbit | Not available |

Note: Toxicity data from the RTECS² and ECHA were consulted. The data from supplier SDSs were also consulted.

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SPEAKER SERVICE CEMENT**Other Toxicological Effects**

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Phenol (CAS# 108-95-2) and o-cresol (CAS# 95-48-7) can cause irritation and eye damage.

Sensitization
(allergic reactions) Based on available data, the classification criteria are not met.

Carcinogenicity
(risk of cancer) The carbon black is possibly carcinogenic by airborne routes of exposures.

Because the carbon black is bound in the epoxy liquid mixture, it is not available as an airborne hazard (dust, mist, or spray) under normal use.

Carbon Black [1333-86-4]

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans

CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)

NTP: Not listed

Mutagenicity
(risk of heritable genetic effects) The phenol (CAS# 108-95-2) is considered a mutagen according to animal studies.

Reproductive Toxicity
(risk to sex functions) Based on available data, the classification criteria are not met.

Teratogenicity
(risk of fetus malformation) Based on available data, the classification criteria are not met.

STOT-single exposure Acetone can affect the central nervous system by inhalation causing drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met. There are no category 1 components.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Acetone does not meet classification criteria for aquatic environmental toxicants with LC50 and EC50 of >100 mg/L.

- Acetone has a minimal LC50 96 h of 5 540 mg/L for *Oncorhynchus mykiss* (rainbow trout) and an EC50 48 h of 13 500 mg/L for *Daphnia magna* (water flea).

Phenol is hazardous to the aquatic environment with a chronic category 2 classification.

o-Cresol is hazardous to the aquatic environment with a chronic category 3 classification.

Carbon black and silica, amorphous is not classifiable as an environmental toxicant (with minimal LC50 of >100 mg/L).

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds.

Biodegradability

This product is biodegradable and will not bioaccumulate.

Other Effects

Volatile Organic Content (VOC) = 2.4% [20.64 g/L] by VOC-Exemption

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

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Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations);
USA DOT 49 CFR (Parts 100 to 185) **Regulations.**

Sizes 5 L and under
8337-55ML, 8337-1G

Limited Quantity



Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 1 L and under
8337-55ML

Limited Quantity



Size up to 5 L (passenger) or 60 L (cargo)
8337-1G

UN number: UN1133
Shipping Name: Adhesives
Class: 3
Packing Group: II
Marine Pollutant: No

Sea

Refer to IMDG regulations.

Sizes 5 L and under
8337-55ML, 8337-1G

Limited Quantity



Sizes greater than 5 L
FOR REFERENCE ONLY
UN number: UN1133
Shipping Name: Adhesives
Class: 3
Packing Group: II
Marine Pollutant: No

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

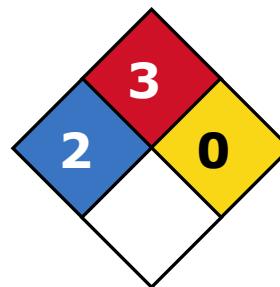
USA

Other Classifications

HMIS® RATING

| | | |
|-----------------------------|----------|----------|
| HEALTH: | * | 2 |
| FLAMMABILITY: | | 3 |
| PHYSICAL HAZARD: | | 0 |
| PERSONAL PROTECTION: | | |

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product contains acetone (CAS# 67-64-1), which is subject to the CERCLA reporting requirements at the 5 000 lb (2 268 kg) threshold.

This product contains phenol (CAS# 108-95-2); reportable quantity = 1 000 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

This product contains o-cresol (CAS# 95-48-7); reportable quantity = 100 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

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8337**SPEAKER SERVICE CEMENT****TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity)

This product contains carbon black, but it is bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

| | |
|----------------------------|---------------------------------|
| SDS Prepared by | Regulatory Department |
| Date of Revision | 14 February 2019 |
| Supersedes | 12 November 2014 |
| Reason for Changes: | Modification to classification. |

Reference

- 1) ACGIH 2017 *TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices*, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

8337**SPEAKER SERVICE CEMENT****Abbreviations**

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists (USA) |
| ECHA | European Chemicals Agency |
| EU | European Union |
| EC50 | Half maximal effective concentration |
| EL50 | Half maximal effective loading |
| IARC | International Agency for Research on Cancer |
| NOELR | No observable effect loading ratio |
| NTP | National Toxicology Program |
| GHS | Globally Harmonized System of Classification of Labeling of Chemicals |
| LC50 | Lethal Concentration 50% |
| LCLo | Lowest published lethal concentration |
| LD50 | Lethal Dose 50% |
| OEL | Occupational Exposure Limit |
| PEL | Permissible Exposure Limit |
| SDS | Safety Data Sheet |
| STEL | Short-Term Exposure Limit |
| TCLo | Lowest published toxic concentration |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Content |

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

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