# ELMER'S RUBBER CEMENT

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| **Product Name** | Elmer's Rubber Cement |
| **Other Means of Identification** | - |
| **Other Names** | - |
| **Product Use** | Adhesive |
| **Company Name** | Jasco Pty Ltd |
| **Address** | 118-122 Bowden Street<br>Meadowbank NSW 2114 |
| **Telephone Number** | 02 9807 1555 |
| **Emergency Telephone** | 13 11 26 |

## 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture**

Flammable

Exclamation mark

Health Hazard

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| H224 - Highly flammable liquid and vapour | Flammable liquids - Danger - Hazard Category 1 |
| H315 - Causes skin irritation | Skin Corrosion/Irritation - Warning - Hazard Category 2 |
| H304 - May be fatal if swallowed and enters airways | Aspiration Hazard – Danger - Hazard Category 1 |
| H336 - May cause drowsiness or dizziness | STOT (Single Exposure) - Warning - Hazard Category 3 |
| H400 - Very toxic to aquatic life | Acute Aquatic Toxicity – Category 1 |
| H410 - Very toxic to aquatic life with long lasting effects | Chronic Aquatic Toxicity– Category 1 |

**GHS Label Elements Including Precautionary Statements**

**Prevention**

Keep away from sparks and open flames. – No smoking.
Keep container tightly closed.
Ground container and receiving equipment.
Use explosion-proof ventilating equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves, eye protection and face protection.
Wash hands thoroughly after handling.
Avoid breathing vapours.

Use only outdoors or in a well-ventilated area.

**Response**
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use carbon dioxide, dry chemical, foam and water spray for extinction.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage**
Store in a well-ventilated place. Keep cool.
Keep container tightly closed.
Store locked up.

**Disposal**
Dispose of contents/container in accordance with local and state government regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation** **Mixture**

| **Hazardous Ingredients** | **CAS No** | **Concentration** |
|---|---|---|
| Heptane | 142-82-5 | 80-90% |
| Ethanol | 64-17-5 | <2.5% |

## 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

**Ingestion** If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Wet lips with water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If a lump forms in the mouth, turn head to side. If burns occur, treat as thermal burns. Seek immediate medical attention.

**Skin** In case of skin contact, immediately remove contaminated clothing. If bonding occurs, immerse the bonded surfaces in warm soapy water. Peel or roll the surfaces apart using a blunt edge, such as a spatula or spoon handle. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Seek medical attention. Launder contaminated clothing before reuse.

**Eyes** In case of eye contact, rinse cautiously with water for several minutes. If bonding to tissues occurs, wash with large amounts of warm water. Cover both eyes with sterile, dry bandages. The eye will open without further action. Do not pull surfaces apart with a direct opposing action. If burns occur, treat as thermal burns. Seek medical attention.

## 5. FIRE FIGHTING MEASURES

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| | For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. |
| **Suitable Extinguishing Media** | Carbon dioxide, dry chemical or foam and water. |
| **Hazardous Combustion Products** | Oxides of carbon. |
| **Special Protective Equipment and Precautions for Fire Fighters** | Wear Safe Work Australia approved self-contained breathing apparatus with positive pressure and full protective clothing. |
| **Unusual Fire or Explosion Hazards** | Severe fire hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive.<br>Cool fire exposed containers with water spray. |
| ***Hazchem Code*** | •3Y |

## 6. ACCIDENTAL RELEASE MEASURES

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| **Personal Precautions, Protective Equipment and Emergency Procedures** | Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Extinguish all sources of ignition. Keep away from sparks and open flames. – No smoking. Use only non-sparking tools. |
| **Environmental Precautions** | In the event of a major spill, prevent spillage from entering drains or water courses. |
| **Methods and Materials for Containment and Cleaning Up** | Stop leak if safe to do so and contain spill. Reduce vapors with water spray. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Use non-sparking tools to collect absorbed material. |

## 7. HANDLING AND STORAGE

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| **Precautions for Safe Handling** | Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.<br>Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure |
| **Conditions for Safe Storage** | Store in a tightly closed original container in a cool, dry, and well ventilated area. Protect from heat, sparks, open flames and hot surfaces. No smoking. Keep away from acids, bases, amines and strong oxidizing agents. Take precautionary measures against static discharge. Ground container and receiving equipment. Do not weld heat or drill container. Store locked up. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| **Control Parameters - Exposure Standards (Safe Work Australia)** | **Heptane:**<br>TWA: 400 ppm / 1640 mg/m$^3$<br>STEL: 500 ppm / 2050 mg/m$^3$<br><br>**Ethanol:**<br>TWA: 1000 ppm / 1880 mg/m$^3$<br>STEL: 500 ppm / 2050 mg/m$^3$ |
| **Engineering Controls** | Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards. Use explosion-proof ventilating equipment. |

**Personal Protective Equipment (PPE)**

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| **Respiratory Protection** | Wear a Safe Work Australia approved air purifying respirator with a tight-fitting face piece, organic vapor cartridge(s) and high-efficiency particulate filter if ventilation is inadequate to keep the airborne concentrations of vapour below occupational exposure standards. See Australian Standards AS/NZS 1715 and 1716 for more information. |
| **Eye/Face Protection** | Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information. |
| **Skin Protection** | Chemical resistant gloves (neoprene rubber), clothing and and boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information. |
| **Thermal Hazards** | No information available. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| **Appearance** | Opaque liquid |
| **Odour** | Mild solvent odour |
| **Solubility in Water** | Almost insoluble |
| **pH** | No information available |
| **Freezing Point** | No information available |
| **Initial Boiling Point / Range** | 90°C |
| **Flash Point (TCC)** | -4°C |
| **Evaporation Rate** | <1 |
| **Lower Flammability or Explosive Limit** | No information available |
| **Upper Flammability or Explosive Limit** | No information available |
| **Vapour Pressure** | No information available |
| **Vapour Density (Air=1)** | >1 |
| **Relative Density (Specific Gravity)** | 0.71 |
| **Volatility** | 90% |
| **Auto-ignition Temperature** | No information available |
| **Decomposition Temperature** | No information available |
| **Viscosity** | No information available |

## 10. STABILITY AND REACTIVITY

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| **Chemical Stability** | Stable at ambient temperature and under normal conditions of use. |
| **Possibility of Hazardous Reactions** | No hazardous reactions known. |
| **Conditions to Avoid** | Heat, flames, sparks and other sources of ignition. |
| **Incompatible Materials** | Acids, bases, amines and strong oxidizing agents. |
| **Hazardous Decomposition Products** | Oxides of carbon. |

## 11. TOXICOLOGICAL INFORMATION

**Toxicity**

**Heptane:**
Oral $LD_{50}$ (mouse) = 5000 mg/kg
Dermal $LD_{50}$ (rabbit) = 3000 mg/kg
Inhalation $LC_{50}$ (rat) = 103000 mg/$m^3$/4 hr
Inhalation of vapour or mist causes respiratory tract and mucous membrane irritation, central nervous system effects (mild excitement followed CNS depression which is characterized by headache, nausea, dizziness, hallucinations, convulsions, weakness, loss of judgement and coordination, narcosis, semiconsciousness, coma and death at higher doses. It may cause cardiac effects -irregular heartbeat and cardiac arrhythmias and pulmonary oedema. It is readily absorbed by the inhalation route. Causes gastrointestinal tract irritation with nausea and vomiting. Aspiration into the lungs can produce chemical pneumonitis. It can also affect CNS with symptoms paralleling those of inhalation. Causes skin irritation.

**Ethanol:**
Oral $LD_{50}$ (mouse) = 3450 mg/kg
Oral $LD_{50}$ (mouse) = 7060 mg/kg
Oral $LD_{50}$ (rabbit) = 6300 mg/kg
Inhalation $LC_{50}$ (rat) = 20000 ppm/10 hr
Draize test, rabbit, eye = 500 mg/24hr - Mild
Draize test, rabbit, skin = 20 mg/24hr – Moderate
Causes severe eye irritation, moderate skin and respiratory tract irritation. May cause central nervous system depression, liver, kidney and heart damage and adverse reproductive and fetal effects in humans.

**Acute Health Effects**

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| **Routes of Exposure** | Inhalation: | Causes respiratory tract irritation, headache, nausea, drowsiness or dizziness and loss of coordination, irregular heartbeat, internal bleeding, kidney damage, unconsciousness and coma. |
| | Ingestion: | Potentially fatal if swallowed. The symptoms are paralleling those of inhalation. |
| | Eye: | May cause eye irritation. |
| | Skin: | Causes skin irritation and allergic reactions. Absorption may cause symptoms similar to those of inhalation. |
| **Skin Corrosion/Irritation** | Causes skin irritation. | |
| **Serious Eye** | Not expected to be a hazard. | |

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| **Damage/Irritation** | |
| **Respiratory or Skin Sensitisation** | Not expected to be a hazard. |
| **Germ Cell Mutagenicity** | Not expected to be a hazard. |
| **Carcinogenicity** | This product does NOT contain any IARC listed chemicals. |
| **Reproductive Toxicity** | Not expected to be a hazard. |
| **Specific Target Organ Toxicity (STOT) - Single Exposure** | May cause drowsiness or dizziness. |
| **Specific Target Organ Toxicity (STOT) - Repeated Exposure** | Not expected to be a hazard. |
| **Aspiration Hazard** | May be fatal if swallowed and enters airways. |

## 12. ECOLOGICAL INFORMATION

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| **Ecotoxicity** | **Heptane:**<br>$LC_{50}$ (Cichlid fish) = 375 mg/L / 96 hr<br>$EC_{50}$ (Daphnia magna) > 10 mg/L/ 24 hr<br>**Ethanol:**<br>$LC_{50}$ (Pimephales promelas) = 11130 mg/L / 96 hr<br>$LC_{50}$ (Lepomis macrochirus) > 1400000 µg/L/ 96 hr<br>$EC_{50}$ (Desmodesmus subspicatus) > 1000 mg/L/ 96 hr |
| **Persistence and Degradibility** | No information available. |
| **Bioaccumulative Potential** | No information available. |
| **Mobility in Soil** | No information available. |

## 13. DISPOSAL CONSIDERATIONS

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| **Disposal methods and containers** | Dispose according to applicable local and state government regulations. |
| **Special precautions for landfill or incineration** | Please consult your state Land Waste Management Authority for more information. |

## 14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG 7).

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| **UN Number** | 1133 |
| **Proper Shipping Name** | ADHESIVES containing flammable liquid |
| **Dangerous Goods Class** | 3 |
| **Subsidiary Risk** | Not applicable |
| **Hazchem Code** | •3Y |
| **Packing Group** | III |
| **Special Provisions** | 223 |
| **Limited Quantities** | 5L |
| **Packagings & IBCs - Packing Instruction** | P001, BC03, LP01 |
| **Packagings & IBCs - Special Packing Provisions** | PP1 |
| **Portable Tanks & Bulk Containers –** | T2 |

**Instructions**
**Portable Tanks & Bulk Containers – Special Provisions** TP1

## 15. REGULATORY INFORMATION

Heptane and ethanol are listed in the Australian Inventory of Chemical Substances (AICS).

**Ethanol is on the National Pollutant Inventory (NPI) list.**

## 16. OTHER INFORMATION

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|---|---|
| **Last Revision of MSDS** | Rev 1.0 (20/08/2012) |
| **Prepared by** | MSDS.COM.AU Pty Ltd www.msds.com.au |
| **Abbreviations Used** | GHS – Globally Harmonised System of Classification and Labeling of Chemicals<br>IARC: International Agency for Research on Cancer<br>STEL: Short term exposure limit<br>TWA: Time weighted average |

**Emergency Contacts**

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| **Jasco Pty Ltd** | **02 9807 1555** |
| **Jasco Pty Ltd – Emergency Number** | **13 11 26** |
| **Police and Fire Brigade** | **000** |
| **Poisons Information Centre** | **13 11 26** |

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This MSDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.”