Pelikan Artline®

SAFETY DATA SHEET

ELMER'S RUBBER CEMENT

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

ELMER'S Rubber cement

Product Name	Elmer's Rubber Cement
Other Means of Identification	-
Other Names	-
Product Use	Adhesive
Company Name	Pelikan Artline Pty Ltd
Address	2 Coronation Avenue Kings Park NSW 2148
Telephone Number	02 9674 0900
Emergency Telephone	1300 ARTLINE

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Flammable

Exclamation mark

Health Hazard

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

	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. Cool fire exposed containers with water spray.
Hazchem Code	•3Y

6. ACCIDENTAL RELEASE MEASURES

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

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. 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

Control Parameters - Exposure Standards (Safe Work Australia)	**Heptane:** TWA: 400 ppm / 1640 mg/m^3 STEL: 500 ppm / 2050 mg/m^3 **Ethanol:** TWA: 1000 ppm / 1880 mg/m^3 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)

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

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

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

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.

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

Ecotoxicity

Heptane:
LC_{50} (Cichlid fish) = 375 mg/L / 96 hr
EC_{50} (Daphnia magna) > 10 mg/L/ 24 hr
Ethanol:
LC_{50} (Pimephales promelas) = 11130 mg/L / 96 hr
LC_{50} (Lepomis macrochirus) > 1400000 µg/L/ 96 hr
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

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).

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

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 IARC: International Agency for Research on Cancer STEL: Short term exposure limit TWA: Time weighted average

Emergency Contacts

Pelikan Artline Pty Ltd	**02 9674 0900**
Pelikan Artline Pty Ltd–Emergency Number	**1300 ARTLINE**
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."