



SAFETY DATA SHEET

1. Identification of Material and Supplier

Product Name: Helmar 450 Quick Dry Adhesive

Recommended Use: Helmar 450 Quick Dry Adhesive is a general purpose craft adhesive.

Supplier: Helmar Australia Pty Ltd

ABN: 28 003 425 796

Street Address: 54-56 Brisbane Road, Riverstone NSW 2765

Telephone Number: (61+2) 9627 4666

Fax: (61+2) 9627 4424

Emergency Telephone Number: (24 Hours)

In Australia contact a Poison Information Centre Ph.: 13 11 26

In New Zealand Ph.: 0800 764 766

In the USA contact a Poison Control Center Ph.: 1 800 222 1222

2. Hazards Identification

This material is classified as hazardous according to health criteria of Safe Work Australia.



Signal Word

Danger

Hazard Classification

Flammable Liquids - Category 2

Serious Eye Damage/Irritation - Category 2A

Specific Target Organ Toxicity (Single Exposure) - Category 3

Non-GHS (Safe Work Australia)

Hazard Statements

H225 – Highly flammable liquid and vapour

H319 – Causes serious eye irritation

H336 – May Cause drowsiness or dizziness

AUH066 – Repeated exposure may cause skin dryness or cracking

General Advice Statements

P101 – If medical advice is needed, have product container or label at hand.

P102 – Keep out of reach of children.

P103 – Read label before use.

Prevention Precautionary Statements

P210 – Keep away from heat/spark/open flames/hot surfaces. – No smoking.
P233 – Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.
P241 – Use explosion–proof electrical/ventilation/lighting equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing mist/vapour/spray.
P264 – Wash hands thoroughly after handling.
P271 – Use only outdoors or in a well-ventilated area.
P280 – Wear protective gloves/eye protection/face protection.

Response Precautionary Statements

P303 + P361 + P353 – IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower.
P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313 – If eye irritation persists: Get medical advice/attention.
P370 + P378 – In case of fire: Use foam/water spray/fog for extinction.

Storage Precautionary Statements

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 – Store in a well-ventilated place. Keep cool.
P405 – Store locked up.

Disposal Precautionary Statements

P501 – Dispose of contents/container in accordance with local regulations.

Australian Poisons Schedule (SUSDP): S5

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”.

In the USA classified as ORM-D Consumer Commodity until 31st December 2020 or Limited Quantity Exception for ground service only by the criteria of CFR 49 Part 173.144 Other Regulated Material (ORM)—Definitions, CFR 49 Part 173.156 Exceptions for limited quantity and ORM, CFR 49 Part 172.315 Limited quantities & CFR 49 Part 172.316 Packaging containing materials classed as ORM-D.

Dangerous Goods Class: 3

In the USA: ORM-D Consumer Commodity or Limited Quantity Exception.

3. Composition/Information on Ingredients

Chemical Entity	CAS Number	Proportion (%)
Acetone	67-64-1	30-60
Ingredients determined to be non-hazardous		Balance
		<hr/> 100%

4. First-Aid Measures

For advice, contact a Poisons Information Centre: In Australia Ph.: 13 11 26, In New Zealand Ph.: 0800 764 766, In the USA contact a Poison Control Center Ph.: 1 800-222 1222

Inhalation: Keep victim calm and remove to fresh air, if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Transport to nearest medical facility for additional treatment if necessary.

Eye Contact: If in eyes, hold eyelids open, flood eyes with water for at least 15 minutes. Seek immediate medical assistance.

Ingestion: If swallowed do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Symptoms caused by exposure

Inhalation: Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness or death.

Skin Contact: May include burning sensation and/or a dried/cracked appearance.

Eye Contact: May include burning sensation, redness, swelling and/or blurred vision.

Ingestion: May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.

Note to Physician: Treat symptomatically.

5. Fire-Fighting Measures

Hazchem Code: 3YE

Suitable Extinguishing Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Specific hazards arising from the chemical

A highly flammable liquid. Carbon monoxide and/or carbon dioxide may be evolved. May form flammable vapour mixtures with air. Avoid all ignition sources. Vapour is heavier than air, spreads along the ground and distant ignition and flash back is possible. Heating can cause decomposition leading to violent rupture of containers. Containers exposed to intense heat from fires should be cooled with large quantities of water.

Special protective equipment and precautions for Fire-fighters

Fire fighters to wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move container(s) to a safe and open area if the leak is irreparable. Dam and contain spill with non-combustible absorbent inert material (vermiculite, dry sand or earth), using non-sparking tools and equipment. Use water spray to reduce vapours and de-activate adhesive. Isolate area until vapour has dispersed and adhesive has turned white in colour. Adhesive will now become a non-flammable, plasticized, inert material and can be disposed of as solid waste. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with damp, absorbent material (e.g. cloth, fleece) for small spills. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Dangerous Goods – Initial Emergency Response Guide No: 14

7. Handling and Storage

Precautions for safe handling

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges maybe generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

Conditions for safe storage, including any incompatibilities

Store in cool well-ventilated place, out of direct sunlight. Keep away from sources of ignition. No Smoking. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use – check regularly for leaks.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: No value is assigned for this specific material. However the National Occupational Health & Safety Commission (NOHSC), Work Safe Australia specifies limits for the following ingredients:

	TWA (8hr)		STEL	
	Ppm	mg/m ³	ppm	mg/m ³
Acetone	500	1185	1000	2375

TWA refers to the Time Weighted Average airborne concentration over an eight hour working day, for a five day working week over and entire working life.

STEL (Short-Term Exposure Limit) refer to the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour workday.

Biological monitoring

The ingredients in this material do not have a Biological Limit allocated.

Engineering control measures

Use in well-ventilated area. Ensure ventilation is adequate to maintain air concentrations below the Exposure Standards. Use local exhaust system or wear appropriate vapour mask/ respirator. Use only flame-proof equipment. Avoid build up of vapour in hollows or sumps as vapour is heavier than air. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Individual protection measures

Overalls, Safety Shoes, Chemical Goggles, Gloves, Respirator.

Eye and face protection

Wear safety goggles.

Skin protection

Wear overalls and chemical resistant gloves (Nitrile Rubber should be adequate for intermittent contact). Consult local glove supplier if required. Wash hands thoroughly with soap and water after use. Wash contaminated overalls before reuse.

Respiratory Protection

Use with adequate ventilation. If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapour (boiling point > 65°C/ 149°F) Respirators should comply with AS/NZS 1715 and AS/NZS 1716 or an equivalent approved by a state/territory authority.

Thermal hazards

Not applicable.

9. Physical and Chemical Properties

Appearance/ Colour/ Odour: Viscous clear liquid with strong solvent odour

Odour threshold: No data available for specific mixture

pH: No data available for specific mixture

Melting point/freezing point (°C): No data available for specific mixture. Acetone = -95

Initial boiling point and boiling range (°C): No data available for specific mixture. Acetone = 56

Flash point (°C): No data available for specific mixture. Acetone = -18 (closed cup)

Evaporation rate (Butyl acetate = 1): No data available for specific mixture. Acetone = 5.6

Flammability (solid, gas): Highly flammable.

Upper/lower flammability or explosive limits: No data available for specific mixture. Acetone = 2.15 – 13.0

Vapour Pressure (mbar @ 20°C): No data available for specific mixture. Acetone = 186

Vapour Density (air = 1): No data available for specific mixture. Acetone = 2

Relative density (g/ml @ 20°C): 0.90

Solubility: Insoluble.

Partition coefficient: n-octanol/water: No data available for specific mixture. Acetone = 0.2

Auto-ignition temperature (°C): No data available for specific mixture. Acetone = 465

Decomposition temperature (°C): No data available for specific mixture.

Viscosity: Approximately 4000-7000 cPs.

Specific heat value: No data available for specific mixture.

Saturated vapour concentration (include reference temperatures): No data available for specific mixture.

Release of invisible flammable vapours and gases: No data available for specific mixture.

Particle size (average and range): No data available for specific mixture.

Size distribution: No data available for specific mixture

Shape and aspect ratio: No data available for specific mixture

Crystallinity: No data available for specific mixture.

Dustiness: No data available for specific mixture.

Surface area: No data available for specific mixture.

Degree of aggregation or agglomeration, and dispersibility: No data available for specific mixture.

Redox potential: No data available for specific mixture.

Biodurability or biopersistence: No data available for specific mixture.

Surface coating or chemistry (if different to rest of particle): No data available for specific mixture.

10. Stability and Reactivity

Reactivity: Stable under normal conditions of use.

Chemical stability: Stable when stored and used as directed.

Possibility of hazardous reactions: None known for this specific mixture.

Conditions to avoid: Heat, sparks, open flames and other sources of ignition.

Incompatible materials: Strong oxidising agents, reducing agents, acids, alkalis.

Hazardous decomposition products: Burning can produce oxides of carbon, smoke and other toxic fumes.

11. Toxicological Information

Acute toxicity: Low toxicity – LD50 Oral (rat) > 2000 mg/kg. LC50 Inhalation (rat) > 20mg/l

Skin corrosion/irritation: Skin – rabbit, Result – Irritating to skin (48h). May cause skin irritation. Will have degreasing effect on skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Serious eye damage/irritation: Moderate to severe eye irritant. High concentrations of 500-1000 ppm are irritating to the eyes.

Respiratory or skin sensitisation: Not expected to be a sensitiser.

Germ cell mutagenicity: Not mutagenic.

Carcinogenicity: Not expected to be carcinogenic.

Reproductive toxicity: Not expected to impair fertility.

Specific Target Organ Toxicity (STOT) – single exposure: Data not available.

Specific Target Organ Toxicity (STOT) – repeated exposure: Central nervous system: repeated exposure affects the nervous system. Effects seen at high doses only.

Aspiration hazard: Aspiration into the lungs when swallowed or vomited may cause pneumonitis which can be fatal. Unlikely due to the viscosity of the specific mixture.

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects may arise if the product is mishandled and overexposure occurs.

12. Ecological Information

Acute Toxicity:

Acetone

Fish – Low toxicity LC50 (bluegill sunfish) 8300 mg/l (96hrs)

Low toxicity LC50 (rainbow trout) 6100 mg/l (flow through) (24hrs)

Aquatic invertebrate – Low toxicity EC50 (daphnia magna) > 10000 mg/l (24hrs)

Algae – Low toxicity 7-8 Day toxicity threshold (blue-green algae) 530 mg/l

Microorganisms – Low toxicity LC/EC/IC50 > 1000mg/l

Chronic Toxicity:

Fish – Data not available.

Aquatic invertebrate – Data not available.

Algae – Data not available.

Microorganisms - Data not available.

Persistence and degradability: Readily biodegradable.

Bio-accumulative potential: Not expected to bio-accumulate significantly.

Mobility in soil: Specific mixture insoluble with water. It will not be mobile and will not contaminate groundwater.

Other adverse effects: Data not available. Avoid contaminating waterways.

13. Disposal Considerations

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see “Section 8. Exposure Controls and Personal Protection” of this SDS.

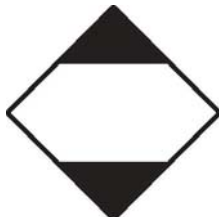
If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

14. Transport Information

ROAD AND TRANSPORT

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”.

In the USA classified as ORM-D Consumer Commodity until 31st December 2020 or Limited Quantity Exception for ground service only by the criteria of CFR 49 Part 173.144 Other Regulated Material (ORM)—Definitions, CFR 49 Part 173.156 Exceptions for limited quantity and ORM, CFR 49 Part 172.315 Limited quantities & CFR 49 Part 172.316 Packaging containing materials classed as ORM-D.



UN Number: 1133
Proper Shipping Name: ADHESIVES containing flammable liquid
Dangerous Goods Class: Class 3
Packaging Group: II
Hazchem Code: 3YE

Segregation of Dangerous Goods: In general, NOT to be loaded with explosives (Class 1), flammable gases (Class 2.1) if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), or radioactive substances (Class 7).

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



UN Number: 1133

Dangerous Goods Class: 3

Packing Group: II

Proper Shipping Name: Adhesives

Proper Shipping description: Adhesives, UN1133, Class 3, Packaging Group II, Refer IMDG page 1374, Flashpoint -18°C , in limited quantities

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport (IATA) Dangerous Goods Regulations for transport by air.



UN Number: 1133

Dangerous Goods Class: 3

Packing Group: II

Proper Shipping Name: Adhesives

15. Regulatory Information

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP),
Poisons Schedule:** 5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. Other Information

Contact Point: Helmar Australia Pty Ltd

Phone: (61+2) 9627 4666 **Fax:** (61+2) 9627 4424

After hours:

In Australia contact a Poison Information Centre Ph.:13 11 26

In New Zealand Ph.: 0800 764 766

In the USA contact a Poison Control Center Ph.: 1-800-222-1222

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Helmar Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

The information and recommendations set down here in this document are presented in good faith and to the best of Helmar Australia Pty Ltd's knowledge. Helmar Australia Pty Ltd cannot predict or control the conditions of use or handling of this product and each user must review this document in the context of the conditions under which they intend to handle and use this product. It is the responsibility of the user to ensure a proper assessment has been carried out. No representations or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made here under with respect to the product to which this information refers.