

AMBER



THE MAKERS OF
Armaflex®

PRODUCT NAME **ARMAFLEX 520 LOW VOC ADHESIVE**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name ARMACELL AUSTRALIA PTY LTD
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Synonym(s) ARMACELL ARAMFLEX 520 LOW VOC ADHESIVE
Use(s) ADHESIVE

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES
R11 Highly flammable.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	1133	Hazchem Code	3[Y]E	Pkg Group	II
DG Class	3	Subsidiary Risk(s)	None Allocated	EPG	3A1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
ACETONE	C3-H6-O	>60%	67-64-1
ADDITIVES	Not Available	Not Available	Not Available

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Inhalation Leave area of exposure. If symptoms develop, seek urgent medical attention. If assisting a person exposed, wear a Type A (Organic vapour) respirator (or Air-line respirator in poorly ventilated areas). If person is not breathing, apply artificial respiration and seek urgent medical attention.

Skin Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

Ingestion DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.

Advice to Doctor Treat symptomatically

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5. FIRE FIGHTING MEASURES

Flammability	Highly flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids.
Fire and Explosion	Highly flammable - explosive vapour. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Small fires: fog or fine water spray, carbon dioxide or dry chemical. Large fires: fog or fine water spray. Prevent contamination of drains or waterways.
Hazchem Code	3[Y]E

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, butyl or neoprene gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists), coveralls and boots. Eliminate all ignition sources. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar, collect and place in sealable containers for disposal. Prevent spill entering drains or waterways.
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7. STORAGE AND HANDLING

Storage	Store in cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, heat and ignition sources, oxidising agents, acids, chloroform and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate fire protection and ventilation systems.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.
Exposure Standards	ACETONE (67-64-1) ES-STEL : 1000 ppm (2375 mg/m ³) ES-TWA: 500 ppm (1185 mg/m ³) WES-TWA: 500 ppm (1185 mg/m ³)
PPE	Wear splash-proof goggles and neoprene or butyl gloves. If spraying, wear a Type A-Class P1 (Organic vapour and Particulate) Respirator. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. When using large quantities or where heavy contamination is likely, wear coveralls.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	BLACK LIQUID	Solubility (water):	INSOLUBLE
Odour:	SOLVENT ODOUR	Specific Gravity:	0.87
pH:	NOT AVAILABLE	% Volatiles:	> 60 %
Vapour Pressure:	NOT AVAILABLE	Flammability:	HIGHLY FLAMMABLE
Vapour Density:	> 1 (Air = 1)	Flash Point:	-20 C
Boiling Point:	> 56 C	Upper Explosion Limit:	NOT AVAILABLE
Melting Point:	NOT AVAILABLE	Lower Explosion Limit:	NOT AVAILABLE
Evaporation Rate:	NOT AVAILABLE	Autoignition Temperature:	NOT AVAILABLE
Exposure Standard:	500 ppm Acetone		

10. STABILITY AND REACTIVITY

Reactivity	Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), chloroform, heat and ignition sources.
Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low to moderate toxicity - narcotic at high concentrations. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and vapour inhalation. Over exposure may cause central nervous system (CNS) depression, with headache, dizziness and unconsciousness at high levels.
Eye	Irritant. Contact may result in lacrimation, irritation, pain, redness and conjunctivitis. Prolonged contact - corneal burns and possible permanent damage.
Inhalation	Irritant - narcotic at high levels. Over exposure may result in mucous membrane irritation of the nose and throat, nausea, vomiting, weakness and headache. At high levels; dizziness, drowsiness, incoordination, bronchial irritation and unconsciousness.
Skin	Irritant. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.
Ingestion	Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, headache and weakness. Large doses may result in dizziness, drowsiness, kidney damage, unconsciousness and coma.
Toxicity Data	ACETONE (67-64-1) LC50 (Inhalation): 44000 mg/m ³ /4 hours (mouse) LD50 (Ingestion): 3000 mg/kg (mouse) LD50 (Skin): > 9400 uL/kg (guinea pig)

12. ECOLOGICAL INFORMATION

Environment	SOIL: If released on soil, acetone will both volatilise and leach into the ground and probably biodegrade. WATER: If released into water, acetone will probably biodegrade. It will also be lost due to volatilisation (half-life ~20 hr using a model river). Bioconcentration in aquatic organisms and adsorption to sediment should not be significant. ATMOSPHERE: Acetone will be lost by photolysis and reaction with hydroxyl radicals. Half-life estimated from these combined sources is 22 days (faster in warmer weather).
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	Wearing the protective equipment outlined, ensure all ignition sources are extinguished. For small quantities, absorb on paper, sand or similar and evaporate under a fume cupboard or open area. For large volumes, atomise into incinerator (mixing with more flammable solvent if required) or recycle by gravimetric separation, distilling & reusing. Contact the manufacturer for additional information if required.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Shipping Name	ADHESIVES containing flammable liquid				
UN No.	1133	Hazchem Code	3[Y]E	Pkg Group	II
DG Class	3	Subsidiary Risk(s)	None Allocated	EPG	3A1

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15. REGULATORY INFORMATION

Poison Schedule	Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

COLOUR RATING SYSTEM: RMT has assigned all Chem Alert reports a colour rating of Green, Amber or Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any

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loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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End of Report