

SAFETY DATA SHEET



ENCAP PLUS

ACTICHEM PTY LTD

Product code: AP460

Version No: 2.3

Issue date: 03/09/2025

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	ENCAP PLUS
Product code	AP460
Pack sizes	5L & 20L

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Encapsulating carpet cleaner
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Details of the manufacturer/importer

Registered company name	ACTICHEM PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
GHS Classification	Eye Damage/Irritation Category 1.
	Classification drawn from HCIS and ECHA C&L Inventory and Supplier's SDSs

Label elements

Hazard pictograms	
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SIGNAL WORD	DANGER
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Hazard statement(s)

H318	Causes serious eye damage
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Precautionary statement(s) Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P264	Wash exposed skin thoroughly after handling

Precautionary statement(s) Response

P310+P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician
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Precautionary statement(s) Storage

Not applicable

Precautionary statement(s) Disposal

Not applicable

This SDS and the hazard classifications contained herein only apply to the product in its concentrated form as supplied. When diluted to 1:32 as recommended and ready-to-use, they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
151-21-3	<10	<u>Sodium lauryl sulphate</u>
111-74-2	<10	<u>Ethylene glycol monobutyl ether</u>
64-17-5	<10	<u>Ethanol</u>
Trade Secret	<10	<u>Proprietary polymer A</u>
Trade Secret	30-60	<u>Proprietary polymer B</u>
Trade Secret	<10	<u>Proprietary polymer C</u>
Trade Secret	<10	<u>Proprietary polymer D</u>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Obtain medical advice/attention without delay Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media	The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.
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Special hazards arising from the substrate or mixture

Fire incompatibility	None known
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Advice for firefighters

Fire Fighting	Alert Fire Brigade and tell the location and nature of hazard Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. May emit acrid smoke. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO), carbon dioxide (CO2) and other pyrolysis products typical of burning organic material. May emit corrosive fumes.
HAZCHEM	Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Moderate environmental hazard - contain spillage. Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate environmental hazard - contain spillage. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.

PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS
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SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid all personal contact. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethanol, denatured	Ethyl alcohol	1880 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm / 96.9 mg/m3	242 mg/m3 / 50 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Sodium lauryl sulphate	Sodium lauryl sulphate	3.9 mg/m3	42 mg/m3	260 mg/m3
ethanol, denatured	Ethyl alcohol	Not Available	Not Available	Not Available
ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm	20 ppm	700 ppm

Ingredient	Original IDLH	Revised IDLH
Sodium lauryl sulphate	Not available	Not available
ethanol, denatured	15,000 ppm	3,3000[LEL] ppm
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm

Exposure controls

Appropriate engineering controls	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended
Personal protection	 
Eye and face protection	Safety glasses with side shields. OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly
Skin protection	See Hand protection below
Hands/feet protection	Wear protective gloves when handling the product.
Body protection	See Other protection below
Other protection	Eye wash unit.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear blue liquid		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Baby powder	Viscosity (cSt)	Not Available
Odour threshold	Not Available	Auto-ignition temperature(°C)	Not Applicable
pH (as supplied)	8	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Partition coefficient n-octanol / water	Not Available
Initial boiling point and boiling range (°C)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Lower Explosive Limit(%)	Not Applicable	pH as a solution (1%)	Not Available
Vapour pressure (kPa)	Not Available	VOC g/L	Not Available
Solubility in water (g/L)	Miscible	Vapour density (Air = 1)	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhalation	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects following contact (as classified by EC Directives using animal models).
Eye	This material can cause eye irritation and damage in some persons.
Chronic	There is no relative data listed.

Toxicological effects of ingredients

sodium lauryl sulphate	Acute toxicity	Oral LD50 (rat) 977 mg/kg Dermal LD50 (rabbit) 580 mg/kg
	Skin corrosion/irritation	Rabbit, 4 hour patch test, 25%: Strong erythema and edema (Data on sodium dodecyl sulfate)(48)
	Eye damage/irritation	Rabbit, Draize test, 20%: Strongly irritating (Data on sodium dodecyl sulfate)(48)
	Respiratory/skin sensitization	Guinea pig, Buehler Test: Negative (Data on sodium dodecyl sulfate)(48)
	Germ cell mutagenicity	Ames test (TA98, TA100, WP2try-): Negative / Rec-assay (H17, M45): Negative
	Carcinogenicity	AS (Alcohol Sulphates) are not carcinogenic
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
ethanol	Acute toxicity	Oral LD50 (mouse) 3450 mg/kg Inhalation LC50 (rat) 2000 ppm/10hrs
	Skin corrosion/irritation	Irritating to skin. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis.
	Eye damage/irritation	Irritating to eyes. Exposure may result in lacrimation, irritation, pain and redness
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	Chronic ingestion may result in cirrhosis of the liver
	Aspiration toxicity	No Data Available
ethylene glycol monobutyl ether	Acute toxicity	Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h
	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	Not classified No study available.
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT (single exposure)	High concentrations may cause central nervous system depression
	STOT (repeated exposure)	Based on repeated exposure toxicity values, not classified
	Aspiration toxicity	Based on physico-chemical values or lack of human evidence. Not classified
proprietary polymer A	Skin corrosion/irritation	Unlikely to cause skin irritation.
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	None anticipated
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
proprietary polymer B	Acute toxicity	ALD (rat) >11000 mg/kg Inhalation ALC (rat) >1417 mg/l (4hr)
	Skin corrosion/irritation	Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.
	Eye damage/irritation	Causes eye irritation
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	There is no evidence of mutagenic potential
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	No available data
	STOT (single exposure)	No available data
	STOT (repeated exposure)	No available data
	Aspiration toxicity	No available data
proprietary polymer C Part A	Acute toxicity	ALD (rat) >11000 mg/kg Inhalation ALC (rat) >1417 mg/l (4hr)
	Skin corrosion/irritation	Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.
	Eye damage/irritation	Causes eye irritation
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	There is no evidence of mutagenic potential
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	No available data
	STOT (single exposure)	No available data
	STOT (repeated exposure)	No available data
	Aspiration toxicity	No available data

proprietary polymer C Part B	Acute toxicity	Oral LD50 (rat) 1378 - >2000 mg/kg Dermal LD50 (rabbit) >2000 mg/kg
	Skin corrosion/irritation	Not available.
	Eye damage/irritation	Causes serious eye damage.
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	Not available.
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	Not available.
	STOT (single exposure)	Not available.
	STOT (repeated exposure)	Not available.
proprietary polymer C Part C	Aspiration toxicity	Not available.
	Acute toxicity	Oral LD50 (rat) 846 – 1236 mg/kg Dermal LD50 (rat) >2000 mg/kg
	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	None anticipated
	STOT (single exposure)	Not available.
proprietary polymer D	STOT (repeated exposure)	Not available.
	Aspiration toxicity	Not available.
	Acute toxicity	Oral LD50 (rat) >7000 mg/kg Dermal LD50 (rabbit) >2000 mg/kg
	Skin corrosion/irritation	Slight/mild irritant to skin
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	Not to be expected
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	Not to be expected
	STOT (single exposure)	No available data
	STOT (repeated exposure)	No available data
	Aspiration toxicity	No available data

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
sodium lauryl sulfate	LC50	96	Fish	0.59-mg/L
	EC50	48	Crustacea	=0.939mg/L
	EC50	96	Algae or other aquatic plants	-0.4-3.7mg/L
	BCF	1	Fish	0.85-mg/L
	EC15	Not coded	Not Available	-0.05-0.25mg/L
	NOEC	0.08	Fish	0.0000013-mg/L
ethanol, denatured	LC50	96	Fish	42-mg/L
	EC50	48	Crustacea	2-mg/L
	EC50	96	Algae or other aquatic plants	-8.358-26.503mg/L
	EC10	168	Algae or other aquatic plants	1.91-mg/L
	NOEC	2016	Fish	0.000375-mg/L
ethylene glycol monobutyl ether	LC50	96	Fish	1-250mg/L
	EC50	48	Crustacea	>1-mg/L
	EC50	96	Algae or other aquatic plants	>1-mg/L
	NOEC	24	Crustacea	>1-mg/L
proprietary polymer A	LC50	96	Fish	100 mg/l
	EC50	48	Aquatic invertebrates)	100 mg/l
	EC50	72	Algae	100 mg/l
proprietary polymer B	EC50	48	Daphnia magna	100 mg/l
proprietary polymer C Part A	EC50	48	Daphnia Magma	<100 mg/l
proprietary polymer C Part B	LC50	96	Fish	5 - 8.5 mg/l
	EC50	72	Aquatic invertebrates	10 mg/l
proprietary polymer C Part C	LC50	96	Fish	0.6 - 32 mg/l
	EC50	48	Aquatic invertebrates	0.5 - 10.8
	ErC50	72	Algae	0.01 – 5.3 mg/l
	NOEC	72	Algae	0.075 mg/l
proprietary polymer D	LC50	96	Oncorhynchus mykiss	1000 mg/l
	EC50	48	Daphnia magna, mobility	40.3 mg/l
	EC50	96	Pseudokirchnerella subcapitata	230 mg/l

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high watermark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. **DO NOT discharge into sewer or waterways**

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium lauryl sulfate	HIGH	HIGH
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)

Bio accumulative potential

Ingredient	Bioaccumulation
sodium lauryl sulfate	LOW (BCF = 7.15)
ethanol	LOW (LogKOW = -0.31)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)

Mobility in soil

Ingredient	Mobility
sodium lauryl sulfate	LOW (KOC = 10220)
ethanol	HIGH (KOC = 1)
ethylene glycol monobutyl ether	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS**Waste treatment methods**

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.
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SECTION 14 TRANSPORT INFORMATION**Labels Required**

Marine Pollutant	NO
HAZ	Not Applicable

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION**Safety, health, and environmental regulations / legislation specific for the substance or mixture****SODIUM LAURYL SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS**Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)**ETHANOL, DENATURED IS FOUND ON THE FOLLOWING REGULATORY LISTS**Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)**ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS**Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australian Inventory of Industrial Chemicals (AIIC)
International Agency for Research on Cancer (IARC) – Agents classified by AIRC monographs**PROPRIETARY POLYMER A - ALL THE COMPONENTS ARE LISTED OR EXEMPT IN THE FOLLOWING REGULATORY LIST**

Australian Inventory of Industrial Chemicals (AIIC)

PROPRIETARY POLYMER B- ALL THE COMPONENTS ARE LISTED OR EXEMPT IN THE FOLLOWING REGULATORY LIST

Australian Inventory of Industrial Chemicals (AIIC)

PROPRIETARY POLYMER C- ALL THE COMPONENTS ARE LISTED OR EXEMPT IN THE FOLLOWING REGULATORY LIST

Australian Inventory of Industrial Chemicals (AIIC)

PROPRIETARY POLYMER D- ALL THE COMPONENTS ARE LISTED OR EXEMPT IN THE FOLLOWING REGULATORY LIST

Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION**Revision Schedule**

Revision Date	03/09/2025
Initial Date	08/12/2016

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	30/12/2020	Sections 2, 3, 4, 5, 8, 11, 12, 15, 16 have been updated or corrected
2.2	01/06/2022	Sections 3, 8, 11, 12, 15.
2.3	03/09/2025	Sections 3, 11, 12, 15.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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