

Version 2.0

Safety Data Sheet
Armor All Professional Ceramic Seal 5 Gal

Revised 28 June 2021

SECTION 1. IDENTIFICATION

Product Name **AAP CERAMIC SEAL**
Material number V35835

Recommended use of the chemical and restrictions on use

Recommended use Vehicle surface protectant

Australian Distributor Velocity Vehicle Care Pty Ltd
5 Horsburgh Drive, Altona North, Vic, 3025
Ph: 1300 990 074
Email: orders@velocityvehiclecare.com
Emergency Number **Australia: 1800 127 406**

NZ Distributor Velocity Vehicle Care NZ Ltd Level 4
3 London St, Hamilton, 3204
Phone: 0800 483 562 (0800 4 VELOC)
Email: orders@velocityvehiclecare.com
Emergency Number **New Zealand: 0800 243 622**

Overseas Supplier NCS Vehicle Care

SECTION 2. HAZARDS IDENTIFICATION**Dangerous Goods Classification**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code 7th ed.) for transport by Road and Rail.

Classified as Dangerous Goods under NZS 5433:2012 Transport of Dangerous Goods on Land.

GHS Classification

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) 7th ed.

Flammable liquids	Category 3
Serious eye damage	Category 1
Skin irritation	Category 2
Reproductive toxicity	Category 2
Skin sensitisation	Category 1

GHS label elements**Hazard pictograms****Signal Word****DANGER**

Hazard statements

H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child.
H317 May cause an allergic skin reaction.

Precautionary statements

Prevention
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist, vapours, or spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response

P305 + P351 + P338 + P310 **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.

P303 + P361 + P353 **IF ON SKIN** (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P308 + P313 **IF exposed or concerned:** Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 **In case of fire:** Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents & container in accordance with local, regional and national Regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
Fatty acids, coco, reaction products with diethylenetriamine and soya fatty acids, ethoxylated, chloromethane-quaternised	68604-75-1	≥ 10 - < 20
2-butoxyethanol	111-76-2	≥ 5 - < 10
Decamethylcyclopentasiloxane	541-02-6	≥ 3 - < 5
Octamethylcyclotetrasiloxane	556-67-2	≥ 3 - < 5
Propan-2-ol	67-63-0	≥ 1 - < 3
alpha-hexylcinnamaldehyde	101-86-0	≥ 0.1 - < 1

The exact percentages of disclosed substances are withheld as trade secrets.

SECTION 4. FIRST AID MEASURES

General advice

Move non-essential personnel away from treatment area, spill, or dangerous area. Symptoms of exposure may appear several hours later. Do not leave victim unattended.

Have this safety data sheet available for emergency/medical responders. Consult a physician after significant exposure. Move victim to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a doctor.

If inhaled

Wash off immediately with plenty of water for at least 15 minutes. If on clothes, remove clothes. Wash clothing before reuse. Get medical attention if symptoms develop.

In case of skin contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Continue rinsing eyes during transport to hospital.

In case of eye contact

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop. Contact the Poison's Information Centre (Australia 131 126; New Zealand 0800 764 766).

Protection of first aiders

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

Treat symptomatically. Symptoms may be delayed.

Most important symptoms and effects, both acute and delayed

Effects are immediate and delayed.
Symptoms may include stinging, irritation, redness, itchiness and pain.
Effects are dependent on exposure (dose, concentration, contact time).
Causes serious eye damage.
Causes skin irritation. May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Review section 2 of SDS to see all potential hazards.

SECTION 5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards during firefighting

May produce toxic fumes, for example, carbon monoxide if burning.
Do not allow run-off from fire fighting to enter drains or water courses.
Flammable products can intensify or spread a fire.

Hazardous combustion products

Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Smoke
Chlorine compounds
Silicon oxides

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Avoid contact with skin and eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Do not allow contact with soil. Prevent runoff to waterways, drains, stormwater or sewer.

Methods and materials for containment and cleaning up

Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material e.g., sand, earth, diatomaceous earth, vermiculite, and place in container for disposal according to local / national regulations (see Section 13). Use only non-sparking tools. Flush away traces with water. For large spills (>5L), dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling

Avoid formation of aerosols. Do not breathe mists, vapours or spray. Avoid exposure - obtain special instructions before use. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. Dispose of rinse water in accordance with local and national regulations.

Product is flammable. Do not store near naked flames or ignition sources. Keep container tightly closed in a cool, dry and well-ventilated place. The ventilation system where the product is stored should be sufficient to ensure that any vapours generated within the store are diluted with, and removed by, the flow of air passing through the storage area.

Conditions for safe storage

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Do not generate sparks e.g. from grinding, drilling, cutting or welding near or in the storage area. Do not store near oxidising agents. Avoid storing above powders or solids. Do not freeze. Do not cut, drill or grind empty container as flammable vapours may still be present.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm (96.9 mg/m ³)	SWA
		STEL	50 ppm (242 mg/m ³)	SWA
		TWA	25 ppm (120 mg/m ³)	NZ WES
Propan-2-ol	67-63-0	TWA	400 ppm (983 mg/m ³)	SWA NZ WES
		STEL	500 ppm (1230 mg/m ³)	SWA NZ WES

Biological occupational exposure limits						
Component	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
None allocated						

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Engineering measures

Effective exhaust ventilation system in all processing areas.
Maintain air concentrations below occupational exposure standards.
Electrical installations / working materials must comply with the technological safety standards.

Personal protective equipment

Avoid breathing mists or sprays. Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. ABEK-P2 filter recommended where ventilation is inadequate.

Hand protection

Wear rubber gloves or other chemical resistant gloves e.g. nitrile, neoprene, natural rubber or PVC

Eye protection

Tightly fitting safety goggles or safety glasses with side shields.

Skin protection

Wear protective clothing and footwear.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable wash facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product
Appearance	liquid
Colour	light amber
Odour	pleasant
Odour threshold	no data available
pH	6 - 7
Melting point/freezing point	no data available
Boiling point	100 °C
Flash point	47.8 °C Method: closed cup
Evaporation rate	no data
Upper explosion limit	no data
Lower explosion limit	no data
Vapour pressure	no data
Relative vapour density	no data
Density	0.975 g/cm ³
Water solubility	completely soluble
Solubility in other solvents	no data
Partition coefficient: n-octanol/water	no data

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Auto-ignition temperature	no data
Thermal decomposition	no data
Viscosity, kinematic	25 mm ² /s (20 °C)

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Stable under normal conditions. Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Information on possible routes of exposure	Possible workplace exposure routes are: Inhalation Eye contact Skin contact
Acute symptoms related to exposure	
Eye	Severely irritating to eye. Symptoms may include redness, irritation, stinging, tearing and pain. Permanent corneal damage may occur if medical treatment is not obtained immediately.
Skin	Skin irritant and may cause an allergic reaction in contact with skin. May cause redness, itchiness, scaly and dry skin.
Inhalation	May cause mild respiratory irritation and headaches.
Ingestion	Not known to be toxic when swallowed. However, if ingested, symptoms may include nausea, vomiting, pain, diarrhea.
Acute oral toxicity	Estimate : 4,321 mg/kg Method: Calculation method
Acute inhalation toxicity	Estimate : 41.82 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	Estimate 4,580 mg/kg Method: Calculation method
Skin corrosion/irritation Serious eye damage/eye irritation	Irritating to skin. May cause irreversible eye damage
Respiratory or skin sensitisation	May cause skin sensitisation. May cause an allergic skin reaction.
Germ cell mutagenicity	no data available

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Carcinogenicity	no data available
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT - single exposure	no data available
STOT - repeated exposure	The solvents in this product may cause defatting of unprotected skin which can lead to dryness and dermatitis.
Aspiration toxicity	no data available
Components (Ingredients)	2-butoxyethanol LD50 Oral Rat: 880 mg/kg propan-2-ol LD50 Rat: 4,396 mg/kg octamethylcyclotetrasiloxane LD50 Rat: > 2,000 mg/kg
Acute oral toxicity	octamethylcyclotetrasiloxane LC50 Rat: 36,000 mg/l Exposure time: 4 h
Acute inhalation toxicity	2-butoxyethanol LD50 Rabbit: 1,060 mg/kg Octamethylcyclotetrasiloxane LD50 Rabbit: > 4,640 mg/kg
Acute dermal toxicity	No data
Skin corrosion/irritation	No data
Serious eye damage/eye irritation	No data
Respiratory or skin sensitisation	alpha-hexylcinnamaldehyde: May cause sensitisation by skin contact.
Germ cell mutagenicity	2-butoxyethanol No clear evidence of mutagenicity.
Carcinogenicity	2-butoxyethanol There is no clear evidence of a carcinogenic effect.
Reproductive toxicity	2-butoxyethanol No evidence for direct developmental toxicity
STOT - repeated exposure	2-butoxyethanol Extensive studies show no evident effect of repeated exposure.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

This product has not been tested. The components 2-butoxyethanol and propan-2-ol are readily biodegradable.

Toxicity to fish

no data available

Toxicity to daphnia and other aquatic invertebrates

no data available

Toxicity to algae

no data available

Components (Ingredients)

2-butoxyethanol
96 h LC50: 1,474 mg/l

Toxicity to fish

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Toxicity to daphnia	2-butoxyethanol 48 h EC50: 690 mg/l
Toxicity to algae	2-butoxyethanol 72 h EC50: 911 mg/l
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Partition coefficient: n-octanol/water	propan-2-ol : log Pow: 0.05 alpha-hexylcinnamaldehyde: log Pow: 4.686
Mobility in soil	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste product and residues	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum as flammable vapours or residues may still be present. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as **Dangerous Goods** by the criteria of the Australian Dangerous Goods Code (ADG Code 7th ed.) for Transport by Road and Rail; Classified as **Dangerous** according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Land transport (ADG)

UN number	1993
Shipping name	Flammable liquid, N.O.S., (Contains octamethylcyclotetrasiloxane)
Class	3
Packing group	III
Hazchem Code	3YE

Marine Transport

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

Marine transport (IMDG/IMO)

UN number	1993
Shipping name	Flammable liquid, N.O.S., (Contains octamethylcyclotetrasiloxane)
Class	3
Packing group	III
Marine pollutant	No
EMS Code	F-E, S-D*

*Product is soluble with water

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Air Transport

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

Air transport (IATA)

UN number	1993
Shipping name	Flammable liquid, N.O.S., (Contains octamethylcyclotetrasiloxane)
Class	3
Packing group	III

SECTION 15. REGULATORY INFORMATION

AICS	All substances listed
Poisons Schedule	Not scheduled
NZ Approval Code	Polymers (Flammable) Group Standard 2020
United States TSCA Inventory	The HSNO Approval Number for this Group Standard is HSR002641.
Canadian Domestic Substances List (DSL)	On TSCA Inventory
	All components of this product are on the Canadian DSL.

SECTION 16. OTHER INFORMATION

AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia
NZ	New Zealand
IARC	International Agency for Research on Cancer
WES	Workplace Exposure Standards
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HSNO	Hazardous Substances and New Organisms
EMS	Emergency Spill Procedures
STOT	Specific Target Organ Toxicity
TWA	Time Weighted Average
STEL	Short-Term Exposure Limit
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
TSCA	Toxic Substances Control Act
DSL	Domestic Substances List
NDSL	Non-Domestic Substances List
AU OEL	Australian Occupational Exposure Limit

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