SECTION 1. IDENTIFICATION

Product Name	**AAP CERAMIC SEAL**
Material number	V35836

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 5433:2020 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 4
Serious eye damage	Category 1
Skin Corrosion	Category 1B

GHS label elements

Hazard pictograms

Signal Word **DANGER**

Hazard statements

H227 Combustible liquid

H314 Causes severe skin burns and eye damage

Precautionary statements

Prevention

P260 Do not breathe mists.

P264 Wash exposed areas thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing & footwear, eye protection and face protection.

Response

P301 + P330 + P331: **IF SWALLOWED**: rinse mouth. Do NOT induce vomiting.

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.

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

P304 + P340: **IF INHALED**: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P370+P378: In case of fire: Use dry powder extinguisher to put it out.

Storage

P405 Store locked up.

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 [%]
Quaternary Ammonium Compounds	Proprietary	≥ 10 - < 15
2-butoxyethanol	111-76-2	≥ 5 - < 10
Balance of ingredients are non-hazardous and/or present at amounts below reportable limits		

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.

If inhaled

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

In case of skin contact

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

In case of eye contact

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

If swallowed

Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Keep affected person at rest. 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 burns, redness, blisters, pain.
Effects are dependent on exposure (dose, concentration, contact time).
Causes severe skin burns and eye damage.
Review section 2 of SDS to see all potential hazards.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Combustible liquid. If possible use dry powder fire extinguishers (ABE powder), alternatively use foam or carbon dioxide extinguishers (CO_2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards during firefighting	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
Hazardous combustion products	Carbon dioxide (CO2) Carbon monoxide Smoke
Special protective equipment for firefighters	Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit). Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate non-essential personnel from the fire area. Destroy any source of ignition. Avoid spillage of the products used to extinguish the fire into an drains and waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.
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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	Avoid formation of aerosols. Do not breathe mists or spray Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
Conditions for safe storage	Product is combustible. Avoid sources of heat, radiation, static electricity and contact with food. Do not store below -4˚C or above 48˚C

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

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

Engineering measures	Effective exhaust ventilation system in all processing areas. Maintain air concentrations below occupational exposure standards.
Personal protective equipment	
Respiratory protection	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.
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	not available
Odour	not available
Odour threshold	no data available
pH	not available
Melting point/freezing point	no data available
Boiling point	113 °C
Flash point	80.5°C
Evaporation rate	no data
Upper explosion limit	no data
Lower explosion limit	no data
Vapour pressure	11.92 kPa (at 50˚C)
Relative vapour density	no data
Density	0.994 g/cm^3
Water solubility	not available
Solubility in other solvents	no data
Partition coefficient: n-octanol/water	no data
Auto-ignition temperature	237˚C
Thermal decomposition	no data
Viscosity, kinematic	not available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
Conditions to avoid	Direct sunlight, temperatures outside of recommended storage conditions – see Section 7.
Incompatible materials	Strong acids, oxidising agents, strong alkalis
Hazardous decomposition products	No hazardous decomposition products are known under normal storage conditions. However, if combustion occurs, carbon dioxide (CO_2), carbon monoxide and other organic compounds can be released.

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	May cause serious eye damage. Symptoms may include burns, redness, irritation, stinging, tearing and pain. Permanent corneal damage may occur if medical treatment is not obtained immediately.
Skin	Causes severe skin burns. Symptoms can include burning, stinging, pain, blisters, redness.
Inhalation	May cause irritation to the mucous membranes of the nose and throat. Symptoms include coughing, trouble breathing, swelling of the upper airways.
Ingestion	Can cause burns to the lips, mouth, throat, oesophagus and stomach. Symptoms may include severe mouth and throat pain, trouble swallowing and breathing, salivating, coughing, vomiting, fast heartbeat, stomach pain.
Acute oral toxicity (Product)	Estimate : 3981.13 mg/kg Method: Calculation method
Acute inhalation toxicity	Estimate : 27.2 mg/L Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	Estimate >5000 mg/kg Method: Calculation method
Skin corrosion/irritation	Causes severe burns
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect.
Germ cell mutagenicity	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect
Carcinogenicity	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect
Reproductive toxicity	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect
STOT - single exposure	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect
STOT - repeated exposure	Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect
Aspiration toxicity	Based on available data, the classification criteria are not met, as

	it does not contain substances classified as hazardous for this effect
Components (Ingredients)	
Acute oral toxicity	2-butoxyethanol LD50 Rat: 880 mg/kg Quaternary Ammonium Compounds LD50 Rat: 960 mg/kg
Acute inhalation toxicity	2-butoxyethanol LC50 inhalation 3 mg/L (ATEi)
Acute dermal toxicity	2-butoxyethanol LD50 Rabbit: 1,060 mg/kg
Skin corrosion/irritation	Quaternary Ammonium Compounds Causes severe skin burns
Serious eye damage/eye irritation	Quaternary Ammonium Compounds Causes serious eye damage
Respiratory or skin sensitisation	2-butoxyethanol No evidence of respiratory or skin sensitisation
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. NOTE: Repeated or prolonged exposure to any chemical may cause drying of the skin leading to dermatitis.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	This product has not been tested. The components 2-butoxyethanol and Quaternary Ammonium Compounds 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)	
Toxicity to fish	2-butoxyethanol 96 h LC50: 1,474 mg/l
Toxicity to daphnia	2-butoxyethanol 48 h EC50: 690 mg/l
Toxicity to algae	2-butoxyethanol 72 h EC50: 911 mg/l Quaternary ammonium compounds 72 h EC50 0.06 mg/L

Persistence and degradability	The components 2-butoxyethanol and Quaternary Ammonium Compounds are readily biodegradable
Bioaccumulative potential	2-butoxyethanol BCF: 3
Partition coefficient: n-octanol/water	2-butoxyethanol Log Pow: 0.83
Mobility in soil	2-butoxyethanol Very high

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 combustible 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 5433:2020 Transport of Dangerous Goods on Land.

Land transport (ADG)	
UN number	1760
Shipping name	Corrosive liquid N.O.S., (Contains quaternary ammonium compound)
Class	8
Packing group	II
Hazchem Code	2X

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	1760
Shipping name	Corrosive liquid N.O.S., (Contains quaternary ammonium compound)
Class	8
Packing group	II
Marine pollutant	No
EMS Code	F-A, S-B

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	1760
Shipping name	Corrosive liquid N.O.S., (Contains quaternary ammonium compound)
Class	8
Packing group	II

SECTION 15. REGULATORY INFORMATION

AICS	All substances listed
Poisons Schedule	Schedule 5 (Quaternary Ammonium Compounds)
NZ Approval Code	Cleaning Products (Combustible, Corrosive) Group Standard 2020 The HSNO Approval Number for this Group Standard is HSR002527.
United States TSCA Inventory	On TSCA Inventory
Canadian Domestic Substances List (DSL)	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
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

Version:	2.1
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