

SECTION 1. IDENTIFICATION

Product Name **RAIN-X AHS ONLINE PROTECTANT PLUS 25 GAL**
Material number V36401

Recommended use of the chemical and restrictions on use

Recommended use Transportation polish/water repellent

Australian Distributor Velocity Vehicle Care Pty Ltd
10 Holmwood Rd, Tottenham, VIC, 3012
Ph: 1300 990 074
Fax: 03 8669 4179
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)
Fax: 07 974 9540
Email: orders@velocityvehiclecare.com
Emergency Number **New Zealand: 0800 243 622**

Overseas Supplier Zep Inc

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.

Skin corrosion	Category 1
Serious eye damage	Category 1
Respiratory sensitisation	Category 1
Skin sensitisation	Category 1

GHS label elements

Hazard pictograms



Signal Word

DANGER

Hazard statements

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements

Prevention

P261 Avoid breathing mists and sprays.

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.

P284 Wear respiratory 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 a doctor.

P304 + P340 **IF INHALED**: Remove person to fresh air and keep comfortable for breathing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or a doctor

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

P363 Wash contaminated clothing before reuse.

Storage

P401 Store locked up in accordance with local regulations.

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 [%]
2-butoxyethanol	111-76-2	≥ 20 - < 30
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	61789-40-0	≥ 10 - < 20
Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides	61789-77-3	≥ 3 - < 5
Propane-1,2-diol, propoxylated	25322-69-4	≥ 3 - < 5
Propane-1,2-diol	57-55-6	≥ 3 - < 5
Acetic acid	64-19-7	≥ 1 - < 3
Siloxanes and Silicones, di-Me, [[[3-[(2-aminoethyl)amino]propyl]silyldyne]tris(oxy)]tris-, methoxy-terminated	67923-07-3	≥ 1 - < 3
Glycerol	56-81-5	≥ 1 - < 3
Propan-2-ol	67-63-0	≥ 1 - < 3
trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate	1934-21-0	≥ 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. Do not leave victim unattended. Have this safety data sheet available for emergency/medical responders.
If inhaled	Remove to fresh air. Avoid becoming a victim. If casualty is unconscious and not breathing – ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain medical assistance. If casualty is unconscious and breathing, place in the recovery position, obtain medical assistance. Administer oxygen if necessary.
In case of skin contact	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes. Wash clothing before reuse. Get medical attention if symptoms develop.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing eyes during transport to hospital. Protect unharmed eye. Keep eye wide open while rinsing. Small amounts splashed into eyes can cause irreversible tissue damage and blindness
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.

Most important symptoms and effects, both acute and delayed

Effects are immediate and delayed. Symptoms may include blistering, irritation, burns, and pain. Symptoms may include difficulty breathing, coughing, wheezing, throat irritation, and tightness/closure of airway. May cause an allergic skin reaction.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water mist
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media

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

Specific hazards during firefighting

Not flammable or combustible. May produce toxic fumes, for example, carbon monoxide if burning.

Hazardous combustion products

Combustion products may include the following materials:
Carbon oxides
Nitrogen oxides
Smoke
Silicon oxides

Special protective equipment for firefighters

Firefighters are to wear self-contained breathing apparatus if in risk of exposure to fumes or products of combustion.

Specific extinguishing methods

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and 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) . Neutralise area with chalk or dilute alkali solution. 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, vapours or spray. Use only with adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms.
Avoid exposure - obtain special instructions before use.
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.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage

Store and keep away from bases and alkalis. Store in suitable labelled containers. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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
Acetic acid	64-19-7	TWA	10 ppm (25 mg/m ³)	SWA NZ WES
		STEL	15 ppm (37 mg/m ³)	SWA NZ WES
Propane-1,2-diol (vapour)	57-55-6	TWA	150 ppm (474 mg/m ³)	SWA NZ WES
Glycerol (mist)	56-81-5	TWA	10 mg/m ³	SWA 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
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200mg/g Creatinine	ACGIH BEI
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work week	40 mg/l	ACGIH BEI

Engineering measures	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
Personal protective equipment	
Respiratory protection	Avoid breathing mists or sprays. No personal respiratory protective equipment normally required when used as directed. However, if working in a poorly ventilated area and exposure limits may be exceeded, wear a respirator with ABEK-P2 cartridge.
Hand protection	Wear chemical resistant gloves e.g. nitrile, neoprene, natural rubber PVC
Eye protection	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product
Appearance	liquid
Colour	dark yellow
Odour	fruity
Odour threshold	no data available
pH	4.6 - 5.1
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	> 93.3 °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	1.004 g/cm ³
Water solubility	soluble
Solubility in other solvents	no data
Partition coefficient: n-octanol/water	no data
Auto-ignition temperature	no data
Thermal decomposition	no data
Viscosity, kinematic	no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Bases
Hazardous decomposition products	Decomposition products following combustion may include the following materials: Carbon dioxide (CO ₂) Carbon monoxide Nitrogen oxides (NO _x) Silicon oxides Smoke

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	Corrosive to eye. Symptoms may include blistering, irritation, burns, and pain.
Skin	Corrosive to skin. May cause blistering, irritation, burns, and pain.
Inhalation	Respiratory irritant. Symptoms may include difficulty breathing, wheezing, coughing, throat irritation, tightness or closure of airway. Effects are dependent on exposure (dose, concentration, contact time).
Ingestion	If ingested, symptoms may include nausea, vomiting, pain, diarrhea.
Acute oral toxicity	Estimate : 3,070 mg/kg Method: Calculation method
Acute inhalation toxicity	Estimate : 55 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	Estimate : > 5,000 mg/kg Method: Calculation method
Skin corrosion/irritation	Corrosive to skin.
Serious eye damage/eye irritation	May cause irreversible eye damage
Respiratory or skin sensitisation	May cause respiratory and skin sensitisation.
Germ cell mutagenicity	no data available
Carcinogenicity	no data available

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Revised 24 May 2021

Reproductive toxicity	no data available
STOT - single exposure	no data available
STOT - repeated exposure	no data available
Aspiration toxicity	no data available
Components (Ingredients)	
Acute oral toxicity	2-butoxyethanol LD50 Rat: 880 mg/kg acetic acid LD50 Rat: 3,310 mg/kg propan-2-ol: LD50 Rat: 4,396 mg/kg Method: Calculation method
Acute inhalation toxicity	2-butoxyethanol LC50 Rat: >20mg/L
Acute dermal toxicity	2-butoxyethanol LD50 Rabbit: 1,060 mg/kg
Skin corrosion/irritation	No data
Serious eye damage/eye irritation	No data
Respiratory or skin sensitisation	trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate May cause sensitisation by inhalation. 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

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

Persistence and degradability No data on product.
Listed components are readily biodegradable.

Bioaccumulative potential No data available

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Partition coefficient: n-octanol/water

propane-1,2-diol : log Pow: -1.07
acetic acid : log Pow: -0.17
glycerol : log Pow: -1.76
propan-2-ol : log Pow: 0.05

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. Where local laws allow, e.g. trade waste agreement, diluted pH-adjusted residues may be sent to sewer.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Containers must remain labelled until all traces and residues have been removed. 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 Goods according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Land transport (ADG)

UN number	1760
Shipping name	Corrosive Liquid, N.O.S. (Contains quaternary ammonium compounds)
Class	8
Packing group	III
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 compounds)
Class	8
Packing group	III
Marine pollutant	No
IMDG EMS Fire/Spill	F-A, S-B

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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	1760
Shipping name	Corrosive Liquid, N.O.S. (Contains quaternary ammonium compounds)
Class	8
Packing group	III

SECTION 15. REGULATORY INFORMATION

AICS	All substances listed
Poisons Schedule	Not scheduled
NZ Approval Code	Cleaning Products (Corrosive) Group Standard 2020 HSR002526
United States TSCA Inventory	On TSCA Inventory
Canadian Domestic Substances List (DSL)	This product contains one or more components that are listed on the Canadian NDSL. All other components 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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