SECTION 1. IDENTIFICATION

Product Name	**BCL Lo pH 190**
Product Number	
Recommended use	Vehicle Care
Restrictions on use	Industrial and commercial use only
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**

SECTION 2. HAZARDS IDENTIFICATION

Dangerous Goods Classification

CLASSIFIED as Dangerous goods for transport by road or rail per Australian Dangerous Goods Code 7th ed. and NZS 5433:2020 Transport of Dangerous Goods on Land. See Section 14 for further details.

GHS Classification

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

Skin Corrosion	Category 1B
Serious Eye Damage	Category 1
Flammable Liquids	Category 4

GHS label elements

Hazard pictograms

Signal Word **DANGER**

Hazard statements

H314 Causes severe skin burns and eye damage

H227 Combustible liquid

Precautionary statements

Prevention

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

P260
Do not breathe mists or sprays

P264 Wash hands thoroughly after handling

P280 Wear protective gloves, eye, and face protection

Response

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

P363
Wash contaminated clothing before reuse

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

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310
Immediately call a doctor or medical centre.

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

Storage

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

Disposal

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Chemical name	CAS-No.	Concentration [%]
Alcohols, C9-11, ethoxylated	proprietary	5 - <10
citric acid	77-92-9	< 5
fluorosilicic acid	16961-83-4	< 5
Dodecylbenzenesulphonic acid	27176-87-0	< 5
Phosphoric acid	7664-38-2	< 5
2-butoxyethanol	111-76-2	< 5

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
This product is not classified as hazardous through inhalation; however, if person becomes affected, remove the person to clean air and keep at rest. Request medical attention if symptoms persist. If unconscious place in recovery position and seek medical advice. Call a doctor after significant exposure or if symptoms persist.

In case of skin contact
Protect victim from further harm. Wash off immediately with plenty of water **for at least 20 minutes**. If large areas of skin are affected, place the victim in the shower. Continue washing even after the chemical seems to have been removed. This will help to reduce tissue damage. Remove contaminated clothing and shoes if safe to do so. Do not remove clothing if it is stuck to the skin. If skin is burned, cover burn with a loose sterile gauze dressing. Take victim to hospital or a medical centre as soon as possible. Always wash contaminated clothing before re-use.

In case of eye contact
Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Rinse immediately with plenty of room temperature water, also under the eyelids, for at least 15 minutes. Continue rinsing eyes during transport to hospital.
Remove contact lenses if safe to do so. Do not attempt to remove contact lens if they are stuck to the eye.
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. Seek immediate medical attention.

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 blistering, burns, redness, and pain. Symptoms may vary depending on systems and organs affected. Symptoms of overexposure may include disorientation, dizziness and confusion. May progress to convulsions, paralysis, unconsciousness.
Effects are dependent on exposure (dose, concentration, contact time).
Causes severe skin burns and eye damage. May cause damage to organs through repeated or prolonged exposure if inhaled.
Review section 2 of SDS to see all potential hazards.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Combustible liquid. If possible use powder fire extinguishers (ABC 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	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
Hazardous combustion products	Carbon dioxide (CO2), carbon monoxide, phosphorous oxide, sodium oxide, sulfur oxide, hydrogen gas, hydrogen fluoride, silane, smoke
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 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

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 contact with skin and eyes. Ensure clean-up is conducted by trained personnel only. Use non-sparking equipment only. Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities
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) . Flush away traces with water. For large spills (>5L), dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Collect spilled material in suitable labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

Product is combustible. Take precautionary measures against static discharges.
Do not open near open flame, sources of heat or ignition. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect combustible products.
Avoid formation of aerosols and mists. Do not breathe mists or sprays. Use with adequate ventilation. Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms.
It is recommended to have non-combustible absorbent material available at close proximity to the product in case of spills.

Conditions for safe storage

Do not store below -4˚C or above 48˚C
Keep container tightly closed in a dry and well-ventilated place. Avoid sources of heat, radiation, static electricity and contact with food.

Materials to avoid

Avoid alkalis or strong bases

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 (skin)	20 ppm / 96.9 mg/m^3	SWA
		STEL (skin)	50 ppm / 242 mg/m^3	SWA
		TWA (skin)	25 ppm / 121 mg/m^3	NZ WES
Phosphoric Acid	7664-38-2	TWA	1 mg/m^3	SWA / NZ WES
		STEL	3 mg/m^3	SWA

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

Engineering measures

Effective ventilation in all processing areas.

Personal protective equipment

Respiratory protection

Use a respirator with an approved filter if ventilation is inadequate or exposure assessment demonstrates that exposure is within permissible concentrations.

Hand protection

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

Eye protection

Safety glasses with side shields or chemical goggles.

Skin protection

Wear protective clothing and chemical resistant 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	amber
Odour	none
Odour threshold	no data
pH (1%)	1-2.4
Melting point/freezing point	no data
Boiling point	101˚C
Flash point	69.5˚C
Evaporation rate	no data
Upper explosion limit	no data
Lower explosion limit	no data
Vapour pressure @ 50˚C	12.31 kPa
Relative vapour density	no data
Relative density	1.07
Water solubility	soluble
Solubility in other solvents	no data
Partition coefficient: n-octanol/water	no data
Auto-ignition temperature	238˚C
VOC % weight	3%
Viscosity, kinematic	no data

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	Extremes of temperature and direct sunlight
Incompatible materials	Oxidising agents, strong bases, alkalis
Hazardous decomposition products	Combustion by-products may include the following materials: Oxides of carbon, phosphorous oxide, sodium oxide, sulfur oxide, hydrogen gas**, hydrogen fluoride**, silane.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Information on likely routes of exposure	Possible workplace exposure routes are: Inhalation Eye contact Skin contact
Early onset symptoms related to exposure (acute symptoms)	
Eye	Risk of serious eye damage. Symptoms may include burning, redness, swelling, stinging, tearing and pain. Permanent tissue damage may occur if first aid is not obtained immediately.
Skin	Causes skin burns. Symptoms may include burning, redness, blistering, pain, swelling. Permanent skin damage can occur if first aid is not obtained immediately.
Inhalation	Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract. Symptoms may include burning, difficulty breathing, itchy or sore throat, runny nose.
Ingestion	Can burn mouth, throat, and stomach. Symptoms include oral pain, ulcerations, drooling, difficulty swallowing, vomiting, and abdominal pain
Toxicological Information Product	
Acute oral toxicity	LD50: 4175.46 mg/kg Method: Calculation method
Acute dermal toxicity	LD50: >5000 mg/kg Method: Calculation method
Acute inhalation toxicity	LC50: 77.79 mg/L (4 h) Method: Calculation method
Skin corrosion/irritation	Causes severe skin 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 with sensitising effects.
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	Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned.
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.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration toxicity	Based on available data, the classification criteria are not met.

Components (Ingredients)	
Acute oral toxicity	Phosphoric acid: LD50 1250 mg/kg Mouse 2-butoxyethanol: LD50 1200 mg/kg Rat Ethoxylated Alcohol: LD50 500 mg/kg (ATEi) Dodecylbenzenesulphonic acid: LD50 890 mg/kg Rat Citric acid: LD50 5400 mg/kg Rat 2-butoxyethanol: LC50 3 mg/L (ATEi)
Acute inhalation toxicity	Phosphoric acid: LD50 2740 mg/kg Rabbit
Acute dermal toxicity	2-butoxyethanol: LD50 3000 mg/kg Rabbit
Skin corrosion/irritation	Phosphoric acid: Causes severe skin burns Dodecylbenzenesulphonic acid: Causes severe skin burns Fluorosilicic acid: Causes severe skin burns Ethoxylated alcohol: Causes serious eye damage
Serious eye damage/eye irritation	Phosphoric acid: Causes serious eye damage Dodecylbenzenesulphonic acid: Causes serious eye damage Fluorosilicic acid: Causes serious eye damage
Respiratory or skin sensitisation	No component of this product, present at levels greater than or equal to 1%, is identified as a skin or respiratory sensitiser
Germ cell mutagenicity	No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human mutagen
Carcinogenicity	No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed reproductive toxin.
STOT – single/repeated exposure	2-butoxyethanol: STOT SE Cat 3 Respiratory irritation Citric acid: STOT SE Cat 3 Respiratory irritation

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	This product has not been tested.
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	Acute Dodecylbenzenesulphonic acid: LC50 5 mg/L (48 h) Leuciscus idus Citric Acid: LC50 1516 mg/L (96 h) Lepomis macrochirus 2-butoxyethanol: LC50 1490 mg/L (96 h) Lepomis macrochirus Chronic Dodecylbenzenesulphonic acid: NOEC 1.121 mg/L 2-butoxyethanol: NOEC 100 mg/L Danio rerio

Toxicity to daphnia	Dodecylbenzenesulphonic acid: EC50 5.9 mg/L (24 h) Daphnia magna Citric Acid: EC50 160 mg/L (48 h) 2-butoxyethanol: EC50 1815 mg/L (48 h) Daphnia magna Chronic Dodecylbenzenesulphonic acid: NOEC 1.369 mg/L 2-butoxyethanol: NOEC 100 mg/L Daphnia magna
Toxicity to algae	2-butoxyethanol: EC50 911 mg/L (72 h) Pseudokirchneriella subcapitata
Persistence and degradability	The organic components are readily biodegradable
Bioaccumulative potential	The bioaccumulative potential of the organic components is low.
Partition coefficient: n-octanol/water	Citric acid: Pow Log -1.55 2-butoxyethanol: Pow Log 0.83
Mobility in soil	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste product and residues	Do not dispose of waste product or residues to sewer. Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product. Containers must remain labelled until all residues and traces of product have been eliminated.

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	3264
Proper Shipping Name	Corrosive liquid, Acidic, Inorganic, N.O.S. (Contains fluorosilicic acid)
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	3264
Proper Shipping name	Corrosive liquid, Acidic, Inorganic, N.O.S. (Contains fluorosilicic acid)
Class	8
Packing group	III
Marine pollutant	no
IMDG EMS Fire/Spill	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	3264
Proper Shipping name	Corrosive liquid, Acidic, Inorganic, N.O.S. (Contains fluorosilicic acid)
Class	8
Packing group	III

SECTION 15. REGULATORY INFORMATION

AICS	All substances listed
Poisons Schedule	Schedule 7 (contains fluorosilicic acid >1%)
NZ Approval Code	Cleaning Products (Combustible, Corrosive) Group Standard 2020 HSR002527

SECTION 16. OTHER INFORMATION

AICS	**Australian Inventory of Chemical Substances**
ADG	**Australian Dangerous Goods**
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**
STOT	**Specific Target Organ Toxicity**
TWA	**Time Weighted Average**
STEL	**Short-Term Exposure Limit**
CAS	**Chemical Abstracts Service**
TSCA	**Toxic Substances Control Act**
DSL	**Domestic Substances List**
NDSL	**Non-Domestic Substances List**

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