SAFETY DATA SHEET

CASKADE VIGOUR

Infosafe No.: 7EFKU
ISSUED Date : 26/09/2018
ISSUED by: JASOL NEW ZEALAND

CLASSIFIED AS HAZARDOUS

1. IDENTIFICATION

GHS Product Identifier
CASKADE VIGOUR

Product Code
2033990

Company Name
JASOL NEW ZEALAND

Address
81 Leonard Road
Mt. Wellington Auckland
1060 New Zealand

Telephone/Fax Number
Tel: +64 9 580 2105
Fax: +64 9 571 4388

Emergency phone number
0800 243 622

Emergency Contact Address
North Island:
81 Leonard Road, Mt. Wellington, Auckland 1060
Phone: +64 9 5802105
Fax: +64 9 5714388

South Island:
105 Rutherford Street, Christchurch 8023
Phone: +64 3 3844433
Fax: +64 3 3844431

(24 hour a day available)
0800 243622

E-mail Address
jasolnzorders@gwf.com.au

Recommended use of the chemical and restrictions on use
Quaternary disinfectant and detergent.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.
6.3A Substance that is irritating to the skin

6.5A Substance that is a respiratory sensitiser
6.5B Substance that is a contact sensitiser
8.3A Substance that is corrosive to ocular tissue
9.1B Substance that is ecotoxic in the aquatic environment

Signal Word (s)
DANGER

Hazard Statement (s)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H401 Toxic to aquatic life.

Pictogram (s)
Corrosion,Health hazard

Precautionary statement – Prevention
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement – Response
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 POISON CENTER or doctor/physician.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Benzalkonium chloride	8001-54-5	1-5%
Performance Additives	-	Not specified
Water	7732-18-5	Remainder

4. FIRST-AID MEASURES

First Aid Measures
24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)
New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)
New Zealand Emergency Services: 111

Inhalation
• If fumes or combustion products are inhaled remove from contaminated area.
• Other measures are usually unnecessary.

Ingestion
• If swallowed do NOT induce vomiting.
• If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
• Observe the patient carefully.
• Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

Skin
If skin contact occurs:
• Immediately remove all contaminated clothing, including footwear.
• Flush skin and hair with running water (and soap if available).
• Seek medical attention in event of irritation.

Eye contact
If this product comes in contact with the eyes:
• Wash out immediately with fresh 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.
• Seek medical attention without delay; if pain persists or recurs seek medical attention.
• Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Advice to Doctor
For exposures to quaternary ammonium compounds;
• For ingestion of concentrated solutions (10% or higher): Swallow promptly a large quantity of milk, egg whites / gelatin solution. If not readily available, a slurry of activated charcoal may be useful. Avoid alcohol. Because of probable mucosal damage omit gastric lavage and emetic drugs.
• For dilute solutions (2% or less): If little or no emesis appears spontaneously, administer syrup of Ipecac or perform gastric lavage.
• If hypotension becomes severe, institute measures against circulatory shock.
• If respiration laboured, administer oxygen and support breathing mechanically. Oropharyngeal airway may be inserted in absence of gag reflex.
Epiglottic or laryngeal edema may necessitate a tracheotomy.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
• There is no restriction on the type of extinguisher which may be used.

Hazards from Combustion Products
• Non combustible.
• Not considered to be a significant fire risk.
• Expansion or decomposition on heating may lead to violent rupture of containers.
• Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
Other decomposition products include: carbon dioxide (CO2), chlorides and nitrogen oxides (NOx).

Special Protective Equipment for fire fighters
Glasses: Not normally required.
Gloves: When handling larger quantities:

Hazchem Code
None allocated

Decomposition Temperature
Not available

Other Information
FIRE INCOMPATIBILITY
- None known.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal
¡ Slippery when spilt.
. Clean up all spills immediately.
. Avoid breathing vapours and contact with skin and eyes.
. Control personal contact by using protective equipment.
. Contain and absorb spill with sand, earth, inert material or vermiculite.

Personal Protection
Personal Protective Equipment advice is contained in Section 8 of the MSDS.

7. HANDLING AND STORAGE

Precautions for Safe Handling
• Limit all unnecessary personal contact.
• Wear protective clothing when risk of exposure occurs.
• Use in a well-ventilated area.
• When handling DO NOT eat, drink or smoke.

Storage Regulations
• Store in original containers.
• Keep containers securely sealed.
• Store in a cool, dry, well-ventilated area.
• Store away from incompatible materials and foodstuff containers.

Recommended Materials
Plastic container.
• Check that containers are clearly labelled.
• Packaging as recommended by manufacturer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
The following materials had no OELs on our records
• benzalkonium chloride: CAS:8001- 54- 5
• water: CAS:7732- 18- 5

Appropriate Engineering Controls
None required when handling small quantities.
General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Provide adequate ventilation in warehouse or closed storage areas.

Personal Protective Equipment
EYE
No special equipment for minor exposure i.e. when handling small quantities.
. OTHERWISE:
. Safety glasses with side shields.

HANDS/FEET
No special equipment needed when handling small quantities. OTHERWISE: Wear general protective gloves, eg.

OTHER
. Overalls.
. Eyewash unit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Liquid

Appearance
Violet coloured liquid; mixes with water.

Colour
Violet

Decomposition Temperature
Not available

Melting Point
Not available

Boiling Point
100 °C

Solubility in Water
Miscible

Specific Gravity
1.0

pH
pH (1% solution): Not available
pH (as supplied): Not available

Vapour Pressure
Not available

Vapour Density (Air=1)
Not available

Viscosity
Not available

Volatile Component
50 approx

Flash Point
Not applicable

Auto-Ignition Temperature
Not applicable

Explosion Limit - Upper
Not applicable

Explosion Limit - Lower
Not applicable

Molecular Weight
Not applicable

10. STABILITY AND REACTIVITY

Reactivity and Stability
CONDITIONS CONTRIBUTING TO INSTABILITY
Product is considered stable and hazardous polymerisation will not occur.

Incompatible materials
For incompatible materials - refer to Section 7 - Handling and Storage

11. TOXICOLOGICAL INFORMATION

Ingestion

- Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).
- Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may
produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.
Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis);
temporary impairment of vision and/or other transient eye damage/ulceration may occur.

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.

Skin

- Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic).
- Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.

Chronic Effects

- Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population.
Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching.
- Primary route of exposure is usually by skin contact.
As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.
One of the constituents of the product has produced skin sensitisation reactions in either experimental animals and/or humans. Such reactions may be manifested as a localised reddening and/or urticaria (a hive-like asthma-like symptoms (shortness of breath, difficult breathing) and/or rhinitis
(runny nose).

Other Information

TOXICITY AND IRRITATION
-Not available. Refer to individual constituents.

12. ECOLOGICAL INFORMATION

Ecological information

benzalkonium chloride 96 hr LC50 (6.1) mg/L Medaka, high-eyes Fish
Toxic to aquatic organisms.

Ecotoxicity

Ingredient	Persistence:Water/Soil	Persistence: Air	Bioaccumulation	Mobility
benzalkonium chloride	LOW	LOW		
water	LOW	HIGH		

13. DISPOSAL CONSIDERATIONS

Waste Disposal
• Recycle where possible
Otherwise ensure that:
• licenced contractors dispose of the product and its container.
• disposal occurs at a licenced facility.

14. TRANSPORT INFORMATION

Transport Information
NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None allocated

Sub.Risk
None allocated

Hazchem Code
None allocated

UN Number (Sea Transport)
None allocated

UN Number (Road Transport)
None allocated

UN Number (Air Transport, ICAO)
None allocated

IATA/ICAO Hazard Class
None allocated

IATA/ICAO Sub Risk
None allocated

IMDG UN No
None allocated

IMDG Hazard Class
None allocated

IMDG Subsidiary Risk
None allocated

15. REGULATORY INFORMATION

Regulatory information
This substance should be managed in accordance with the requirements specified in the Cleaning Products (Subsidiary Hazard) Group Standard 2006, HSNO Approval Number HSR002530.

National and or International Regulatory Information
Regulations for ingredients

benzalkonium chloride (CAS: 8001-54-5) is found on the following regulatory lists;
"New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)","New Zealand Hazardous Substances and New Organisms
(HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of

Chemicals -
Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Pesticides", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Timber Preservatives, Antisapstains and Antifouling Paints", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Veterinary Medicines", "New Zealand Inventory of Chemicals (NZIoC)"

water (CAS: 7732-18-5) is found on the following regulatory lists;
"IMO IBC Code Chapter 18: List of products to which the Code does not apply", "New Zealand Inventory of Chemicals (NZIoC)", "OECD Representative List of High Production Volume (HPV) Chemicals"

No data for CASKADE VIGOUR

Other Information
Specific advice on controls required for materials used in New Zealand can be found at http://www.epa.govt.nz/hazardous-substances/approvals/Pages/default.aspx.

16. OTHER INFORMATION

Date of preparation or last revision of SDS
26/09/2018

Technical Contact Numbers
24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)
New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)
New Zealand Emergency Services: 111

Other Information
The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.
This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Jasol NZ cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.
If clarification or further information is needed, the user should contact their Jasol NZ representative or Jasol NZ at the contact details on page 1.
Jasol NZ's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request

END OF SDS