

21/10/2020

Zenith UK Media Limited,
1st Floor 2 Television Centre
101 Wood Lane,
London, England,
United Kingdom

Transport Trading Limited, registered number 01900907, whose registered office is at 5 Endeavour Square, London, E20 1JN (the "**Authority**") and Zenith UK Media Limited, a private limited company incorporated in England, registered number 01921320, whose registered office is at 1st Floor 2 Television Centre, 101 Wood Lane, London, England And Wales, United Kingdom, W12 7FR ("the **Agency**") and RB UK Commercial Limited, registered number 08784077, whose registered office is at 103-105 Bath Road, Slough, Berkshire, SL1 3UH ("the **Sponsor**") (jointly the "**Sponsor Team**") (all together the "**Parties**")

agree to the Authority's grant of the Benefits in return for the Sponsor's payment to the Authority of the Sponsorship Costs relating to a twelve-month and two week activation within 270 London Underground Stations and 176 Surface Transport Locations, beginning on the 14th December 2020, as set out in the commercial terms below and general terms appended (the "**Agreement**").

Please sign and return by e-mail to gregsymondson@tfl.gov.uk the enclosed letter to indicate your agreement.

COMMERCIAL TERMS

1. **Activation Stations** means the London Underground stations defined in Appendix 3.
2. **Surface Transport Locations** means the London Bus Stations, London River Boat Services docks, Docklands Light Railway stations, London Overground Stations, Victoria Coach Station, Emirates Airline locations and Woolwich Ferry locations defined in Appendix 4.
3. **Hand Sanitiser Units** means the 5L hand sanitiser dispenser units and 20L hand sanitiser dispenser units in the quantities and locations defined in Appendix 3 and Appendix 4.
4. **The Product** means 5 litre containers of Dettol hand sanitiser fluid supplied by The Sponsor to The Authority as outlined in Appendix 2. The formulation and safety considerations of which are outlined in Appendix 5.
5. **Hand Sanitiser Scheme** means the provision of Hand Sanitiser Units in the locations defined in Appendix 3 and Appendix 4.
6. **Title Sponsorship** means The Sponsor will have exclusivity as the only visible brand on the Hand Sanitiser Units during The Sponsorship Period.
7. **Benefits** means

For the duration of the Sponsorship Period as defined below and in consideration of the Sponsorship Costs being paid in accordance with Clause 3 below, the Authority shall provide and shall procure the following for the benefit of the Sponsor Team. Any of the following rights and related designs are subject to final approval by the Authority which shall not be unreasonably withheld or delayed.

Hand Sanitiser Scheme sponsorship 14th December 2020 – 7th January 2022 inclusive or such other date as the Parties may jointly agree

The Sponsor Team shall have the right to display branding on all Hand Sanitiser Units within the Activation Stations and Surface Transport Locations.

Station activation

- The Authority shall provide experiential space within London Underground Stations and Surface Transport Locations in order for the Sponsor to distribute 50ml bottles of Dettol hand sanitiser.

- The Authority shall provide experiential space for The Sponsor to distribute up to 1,000,000 50ml bottles of Dettol hand sanitiser during the Sponsorship Period. Experiential space bookings shall be mutually agreed between the Sponsor and the Authority at least 3 weeks before each booking. A maximum of 10 experiential space bookings can be made on each day of the Sponsorship Period.
- The Sponsor will have the right to be included in themed tannoy announcement which will be played at least every 60 minutes in 5 Activation Stations for 28 days of the Sponsorship Period.

Press and social activation

- 1 x social media post across each main corporate accounts from @tfl during the Sponsorship Period. (Twitter 2.4m, Facebook 420k and Instagram 110k).
- Press release issued by the TfL press office announcing the Sponsorship.

The wording for this post shall be mutually agreed between the parties

TfL.gov.uk advertising

- Exclusive advertising rights on the TfL.gov.uk homepage for 48 hours during the Sponsorship Period.

The specifications for these adverts are: 300x250px , 320x50px, 728x90px, 970x250px

8. **Sponsor Logo** means the following:



The Sponsor hereby grants to the Authority for the duration of the Project a non-exclusive, non-transferable, royalty-free licence to use the Sponsor's Logo(s) solely for the purposes of promoting the Sponsor's involvement with the Project and in accordance with the terms of this Agreement and any guidance or other instructions issued by the Sponsor from time to time. The Authority shall not take any action which denigrates The Sponsor trademarks or in any way devalues the good will associated with The Sponsor's products (including without limitations altering The Sponsor trade marks in any way or using on goods similar to The Sponsor's products any marks or any-get up similar to that associated with The Sponsor's products).

9. **Authority Logo(s)** means the following:



The Authority hereby grants to the Sponsor for the duration of the Project a non-exclusive, non-transferable, royalty-free licence to use the Authority's Logo(s) solely for the purposes of promoting the Authority's involvement with the Project and in accordance with the terms of this Agreement and any guidance or other instructions issued by the Authority from time to time.

10. **Sponsorship Costs** means £900,000 plus VAT payable as follows:

- £225,000 plus VAT invoiced before 30th November 2020
- £225,000 plus VAT invoiced before 26th March 2021
- £225,000 plus VAT invoiced before 23rd July 2021
- £225,000 plus VAT invoiced before 26th November 2021

For the avoidance of doubt time shall be of the essence for the payment of Sponsorship Costs.

11. **Branding Costs** means £89,712 plus VAT invoiced before 30th November 2020

The Authority shall invoice Zenith UK Media Limited of the Sponsorship Costs and the Branding Costs, which will be payable by the end of the following month following receipt of the invoice.

For example, an invoice received on 30th November 2020 will be payable by the end of December 2020.

12. **11. Product Supply** means the provision of hand sanitiser (the Product) by The Sponsor to The Authority under the terms described in Appendix 2. The Authority procures that any third party involved in the station activation, agents or subcontractors, including but not limited to the contracted cleaning partner, should also comply with the terms and obligations of the present agreement

13. **Sponsorship Period** means the period commencing at 00:01 on 14th December 2020 and continuing until 23:59 7th January 2022 inclusive or such other period as mutually agreed between the Parties.

14. **First Refusal Date** means The Sponsor must inform The Authority if they wish to extend The Sponsorship Period before 7th November 2021. The Authority shall not solicit any other Title Sponsor for the Hand Sanitiser Scheme before the First Refusal Date or after The Sponsor has declined in writing the right to extend The Sponsorship Period.

The Authority reserves the right to end the hand sanitiser scheme at the end of the Sponsorship Period. In which case the Sponsor will not be able to extend the Sponsorship Period.

15. **Product Supply Review Meeting** means the dates on which the Authority and the Sponsor shall meet to discuss the Product Supply quantities and agree upon any increase or decrease in the Product quantities as outlined in Appendix 2. The meetings shall take place on the following dates:

- First Product Supply Review Meeting: 15th March 2021
- Second Product Supply Review Meeting: 16th July 2021

16. **Project** means the delivery of the Benefits in the Activation Stations during the Sponsorship Period.

17. **Launch Date** means the first day of the Sponsorship Period on 14th December 2020 or such other date as mutually agreed between the Parties

SIGNED FOR AND BEHALF OF THE PARTIES

.....
Duly authorised signatory
for the Authority

.....
Duly authorised signatory
for the Sponsor

APPENDIX 1- GENERAL TERMS

1. The Agency shall pay the Sponsorship Costs in the manner and on the dates required by this Agreement.
2. In the event that the Agency fails to pay any fee or cost or meet any other obligation in accordance with this Agreement, the Authority may without prejudice to its other rights under this Agreement elect to withdraw the relevant element of the Benefits, offer an alternative or reduced Benefit(s) or deliver the Benefit(s) notwithstanding such late payment but recover the relevant sum(s) later.
3. If requested by the Sponsor, the Authority shall acknowledge the Sponsor's participation in the Project by incorporating the Sponsor's name and/or the Sponsor Logo on the literature, programmes, advertisements and posters. The Authority shall have the sole right of approving all such literature and materials.
4. Either Party may terminate this Agreement at any time if: (a) the other party goes into liquidation, receivership, administrative receivership, administration, becomes insolvent or ceases trading or a petition is presented for its winding-up or bankruptcy; (b) the other demonstrates or declares, whether by words, actions or inactions, that it shall adhering to any obligation of this Agreement; or (c) circumstances arise from which there is a risk of damage to one party by reason of the conduct of, or adverse publicity about the other party, by giving the notice in writing to bring the Agreement to an end immediately,
5. The Sponsor shall remain liable for the Sponsorship Costs in full in the event that (a) the Sponsor determines that it no longer wishes to be associated with the Project unless terminated in the circumstances described in paragraph 4 ; or (b).
6. Either Party may give notice to terminate this Agreement in the event that the other: (a) breaches this Agreement and fails to remedy such breach within 14 days of notice given by the Party not in breach to the other; or (b) breaches this Agreement where such breach is not capable of remedy.
7. The Authority accepts no responsibility for any reason beyond the Authority's control, including but without limitation any act of God, fire, national or local disaster or strike or labour dispute of whatever nature. The Sponsor shall indemnify the Authority in respect of all claims, damages, costs and fees (including (without limitation) legal costs) howsoever and whensoever arising (including, without limitation, claims, damages and costs in respect of death, personal injury or damage to property (and consequential loss)) resulting from any direct and material breach of this Agreement, negligence, or breach of statutory or other duty by the Sponsor or any person acting on its behalf.
8. The Sponsor hereby grants to the Authority a non-exclusive and royalty free licence to use the Sponsor Logo in relation to the Project. The Authority shall at its absolute discretion be entitled to transfer such licence to Transport for London or any of Transport for London's subsidiaries (as defined in section 1159 of the Companies Act 2006). Such licence shall terminate upon expiry or earlier termination of this Agreement provided always that the Sponsor acknowledges and agrees that: (a) following expiry or earlier termination by the Authority, the Authority shall be entitled to continue to use the Sponsor Logo in its reporting of outcomes of the Project, general historical reporting of the Project and for archive purposes; and (b) following any earlier termination by the Sponsor the Authority shall be entitled to a reasonable period within which to remove the Sponsor Logo from Project related materials such period to be no less than two (2) calendar months.
9. Neither Party shall do anything to impair the rights of the other Party in its trademarks or other intellectual property and neither Party shall represent that it has any right to (or to use) such trademarks except as expressly permitted under this Agreement. All rights in and to the Project, its name, get-up, logos, goodwill and reputation, and any related intellectual property rights, shall remain owned by the Authority, save for any intellectual property rights existing in the Sponsor Logo. Neither Party shall do or permit any act within its control which may be

derogatory to the other Party, its products or services, its brands or trade or service marks or is likely in any way to damage or impair the high standing or reputation of that Party. Subject to Clause 9, in the event of termination of this Agreement, all rights of one Party to use the other Party's trademarks or other intellectual property ends immediately.

10. The Sponsor shall indemnify and hold harmless the Authority against any claims, damages, costs, fees (including (without limitation) legal costs), expenses, loss or damage incurred by Authority as a result of a claim or allegation that any promotional or other material infringes, by reason of incorporating any of the Sponsor's marks or any content (such as text, graphics or photography) supplied by the Sponsor infringes the intellectual property rights of a third party.
11. The Sponsor undertakes to maintain in strictest confidence and not to disclose to any third party without the prior written consent of the Authority any trade or business secret or other information by its nature or expressed to be confidential supplied by the Authority to the Sponsor. The Sponsor gives its consent for the Authority to publish this Agreement and ancillary information/documentation.
12. The Sponsor shall not, and shall procure that any person acting on its behalf shall not, pay any commission, fees or grant any rebates to any employee, officer or agent of the Authority nor favour employees, officers or agents of the Authority with gifts or entertainment of significant cost or value nor enter into any business arrangement with employees, officers or agents of the Authority without the Authority's written approval.
13. Any notice, demand or communication required to be given in connection with this Agreement will be in writing and may be delivered by hand, prepaid recorded delivery first class post or facsimile addressed to the recipient at its registered office or any other address (including a facsimile number) notified to the other Party in writing in accordance with this paragraph as an address to which notices, invoices and other documents may be sent. The notice, demand or communication will be deemed to have been duly served if delivered by (a) hand, at the time of delivery; or (b) post, 2 business days after being posted or in the case of airmail 14 business days after being posted.
14. The Agreement is personal to the Sponsor who may not assign or otherwise transfer any rights or obligations under this Agreement without the prior written consent of the Authority.
15. If any provision of this Agreement shall be held to be invalid, illegal or unenforceable for any reason the validity of the remaining provisions shall not be affected.
16. No waiver of any provision of this Agreement shall be effective unless expressly stated to be waived and communicated in writing to the other Party.
17. Nothing in this Agreement shall constitute or be deemed to constitute any partnership or agency arrangement between the Parties.
18. Save that any subsidiary (as defined in section 1159 of the Companies Act 2006) of the Authority has the right to enforce the terms of this Agreement in accordance with the Contracts (Rights of Third Parties) Act 1999 ("Third Party Act"), the Parties do not intend that any of the terms of this Agreement shall be enforceable by virtue of the Third Party Act by any person not a party to it provided always that the Parties are entitled to vary or rescind this Agreement without the consent of any other person including such Authority subsidiaries.
19. Any variation to this Agreement agreed by the Parties shall be recorded in writing.
20. The laws of England govern this Agreement and the Parties shall submit to the exclusive jurisdiction of the English courts.

APPENDIX 2 – SUPPLY TERMS AND CONDITIONS

1. Quantity and delivery:

- The Parties agree that the Sponsor would supply the Product in quantities and on dates mutually agreed between them.
Unless otherwise agreed, 124,800 litres of product will be delivered for the duration of the Sponsorship Period.
- In case of an increase in demand for the Product beyond expected levels (124,800 litres during the Sponsorship Period) The Sponsor will provide up to an additional 10% of the Product (12,480 litres) free of charge.
Any additional product needed during the Sponsorship Period beyond 137,280 litres will be purchased by the Authority under applicable RB standard Terms and Conditions of Sales.
- The Sponsor will deliver the Product at the following address unless otherwise agreed between the Parties:

ABM co YY Security Installations Ltd
Western Avenue Approach
Hillingdon
Uxbridge
UB10 9NA

The Products shall be at The Authority's risk from the time of delivery.

2. The Authority's obligations

- The Authority is responsible to ensure that the branded spaces for the Hand Sanitiser Units will be cleaned daily and kept in working order for the duration of the Sponsorship Period.
- The Authority shall store the Products in its premises in a proper manner in conditions which adequately protect and preserve the Products without any charge to the Sponsor, and not tamper with any identification upon the Products or their packaging. The Sponsor shall be entitled to examine any such Products in storage (and in the case of third-party storage, The Authority shall procure such right to the Sponsor) at any time during normal business hours upon giving reasonable notice.
- The Authority shall always at all times ensure that during the opening hours of the stations described in Appendix 3, the Hand Sanitiser Units shall be refilled in a timely manner to ensure passengers 'usages.
- The Authority guarantees that the Sponsor's branded dispensers will not be refilled with any other product than the one provided by the Sponsor for the duration of the Sponsorship Period, under the terms of this agreement.
- The Authority guarantee that the Product will not be used to refill other dispensers (not branded by the Sponsor) at any time during or after the Sponsorship agreement.

3. The Sponsor's Obligations

- The Sponsor is responsible for ensuring a consistent and timely supply of the Product to the Authority in quantities and on dates mutually agreed between the Parties.
- The Sponsor understands that failure to deliver the Product on time and in the agreed quantities will impact the Authority's ability to deliver the Commercial Terms of this agreement.
- If the Sponsor failure to supply the Product results in the Authority being unable to refill the Sponsor's branded dispensers, the Authority reserves the right to refill the dispensers with a product from an alternative supplier. In such an event, the Sponsor will have the option to

remove their branding from the affected hand sanitiser dispensers at the Sponsor's cost and prior written notice must be given to the Sponsor

- The Sponsor shall seek written permission by the Authority if at any point during the Sponsorship Period they wish to supply an alternative Product to the one specified in Appendix 5 of this Agreement. The Authority reserves the right to refuse permission. Such permission will not be unreasonably withheld.

APPENDIX 3 – LONDON UNDERGROUND STATIONS

Station	Ticket Hall	Total Number Dispensers installed
Acton Town	Acton Town, Way in/out barrier in tickethall	2
Aldgate	Aldgate, only one entrance	4
Aldgate East	Aldgate East, EAST GATES	2
Aldgate East	Aldgate East, WEST GATES	4
Alperton	Alperton, Way in/out barrier in TicketHall	1
Amersham	Amersham, Way in/out barrier in TicketHall	2
Angel	Angel, Main entrance	6
Archway	Archway, Top of down escalator in Ticket Hall	4
Arnos Grove	Arnos Grove, Way in barrier in Ticket Hall	2
Arsenal	Arsenal, Way in barrier in Ticket Hall	1
Baker Street	Baker Street, BAKERLOO GATES	4
Baker Street	Baker Street, CHILTERN GATES	2
Baker Street	Baker Street, ENTRY GATES+MAIN GATES	4
Balham	Balham, only entrance	4
Bank & Monument	Bank & Monument, ENTRY GATES+MAIN GATES central TH	6
Bank & Monument	Bank & Monument, Monument Gates	6
Bank & Monument	Bank & Monument, NORTHERN GATES	6
Bank & Monument	Bank & Monument, W&C GATES	6
Bank & Monument	Bank & Monument - Walbrook	2
Barbican	Barbican, LUL - entrance	4
Barkingside	Barkingside, Way in/out barrier in TicketHall	1
Barons Court	Barons Court, Way in/out barrier in Ticket Hall	4
Bayswater	Bayswater, only entrance	2
Becontree	Becontree, Way in/out barrier in TicketHall	2
Belsize Park	Belsize Park, Way in barrier to lifts at Booking Hall level	1
Bermondsey	Bermondsey, only one entrance	3
Bethnal Green	Bethnal Green, LUL - entrance	4
Blackfriars	Blackfriars, only one entrance	6
Blackhorse Road	Blackhorse Road, only one entrance	4
Bond Street	Bond Street, NEAR GATES+CENTRE GATES+FARGATES	6
Boston Manor	Boston Manor, Way in/out barrier in TicketHall	2
Bounds Green	Bounds Green, Top of down escalator & stairs in Ticket Hall	2
Bow Road	Bow Road, Way in/out barrier in TicketHall	2
Brent Cross	Brent Cross, Way in barrier in Ticket Hall	2
Brixton	Brixton, only one entrance	6
Bromley-by-Bow	Bromley-by-Bow, Way in/out barrier in TicketHall	2
Buckhurst Hill	Buckhurst Hill, Way in/out barrier in TicketHall	2
Burnt Oak	Burnt Oak, Way in/out barrier in TicketHall	2
Caledonian Road	Caledonian Road, Way in/out barrier in TicketHall	2

Camden Town	Camden Town, Way in barrier in Ticket Hall	2
Canada Water	Canada Water, only one entrance	4
Canary Wharf	Canary Wharf, East Gates	6
Canary Wharf	Canary Wharf, West Gates	6
Canning Town	Canning Town, only one entrance	4
Cannon Street	Cannon Street, only one entrance	4
Canons Park	Canons Park, Way in/out barrier in TicketHall	2
Chalfont & Latimer	Chalfont & Latimer, Way in/out barrier in TicketHall	2
Chalfont & Latimer	Chalfont & Latimer, Way in/out barrier on Northbound platform	2
Chancery Lane	Chancery Lane, ENTRY GATES+MAIN GATES	6
Chesham	Chesham, Way in/out barrier in TicketHall	2
Chigwell	Chigwell, Way in/out barrier in TicketHall	1
Chiswick Park	Chiswick Park, Way in/out barrier in TicketHall	2
Chorleywood	Chorleywood, To/from Northbound platform	1
Chorleywood	Chorleywood, Way in/out barrier in TicketHall	1
Clapham Common	Clapham Common, Top of down escalator & stairs in Ticket Hall	4
Clapham North	Clapham North, only one entrance	2
Clapham South	Clapham South, only one entrance	3
Cockfosters	Cockfosters, Way in/out barrier in TicketHall	2
Colindale	Colindale, Way in/out barrier in TicketHall	2
Colliers Wood	Colliers Wood, Top of down escalator & stairs in Ticket Hall	2
Croxley	Croxley, Way in/out barrier in TicketHall	2
Dagenham East	Dagenham East, Way in/out barrier in TicketHall	2
Dagenham Heathway	Dagenham Heathway, only one entrance	2
Debden	Debden, Way in/out barrier in TicketHall	2
Dollis Hill	Dollis Hill, Way in/out barrier in TicketHall	2
Ealing Broadway	Ealing Broadway, main gates	2
Ealing Common	Ealing Common, Way in/out barrier in TicketHall	2
Earl's Court	Earl's Court, MAIN GATES	4
Earl's Court	Earl's Court, WARWICK RD GATES	2
East Acton	East Acton, Way in/out barrier in TicketHall	1
East Finchley	East Finchley, TH	4
East Ham	East Ham, only one entrance	4
East Putney	East Putney, Way in/out barrier in TicketHall	2
Eastcote	Eastcote, Way in/out barrier in TicketHall	1
Edgware	Edgware, only one entrance	2
Edgware Road (Bak)	Edgware Road (Bak), only one entrance	4
Edgware Road (Cir)	Edgware Road (Cir), AUXIL GATES	2
Edgware Road (Cir)	Edgware Road (Cir), MAIN GATES	2
Elephant & Castle	Elephant & Castle, BAK ENTRY GATES+BAK EXIT GATES	2
Elephant & Castle	Elephant & Castle, NORTHERN GATES	2
Elm Park	Elm Park, Way in/out barrier in TicketHall	2
Embankment	Embankment, only one entrance	6

Epping	Epping, Ungated entry/exit with reader	1
Epping	Epping, Way in/out barrier in TicketHall	1
Euston	Euston, ENTRY GATES+MAIN GATES+EXITGATES	6
Euston Square	Euston Square, More gates	4
Euston Square	Euston Square, NEAR GATES+FAR GATES	3
Fairlop	Fairlop, Way in/out barrier in TicketHall	1
Farringdon	Farringdon Intergrated Ticket Hall	4
Farringdon	Farringdon, MAIN GATES	4
Farringdon	Farringdon, TURNMILL TH	6
Finchley Central	Finchley Central, Ungated entry/exit	2
Finchley Central	Finchley Central, Way in barrier in Ticket Hall	2
Finchley Road	Finchley Road, Way in/out barrier in TicketHall	4
Finsbury Park	Finsbury Park, Station Place Ticket Hall end of tube access only passage	3
Finsbury Park	Finsbury Park, Goodwin St	5
Fulham Broadway	Fulham Broadway, Way in/out barrier in TicketHall	4
Gants Hill	Gants Hill, only one entrance	2
Gloucester Road	Gloucester Road, only one entrance	2
Golders Green	Golders Green, North End Road Ticket Hall Way in/out barrier	2
Goldhawk Road	Goldhawk Road, Way in/out barrier in TicketHall	2
Grange Hill	Grange Hill, Way in/out barrier in TicketHall	2
Great Portland Street	Great Portland Street, only one entrance	3
Green Park	Green Park, Picc & Vic gates	6
Greenford	Greenford, Way in/out barrier in TicketHall	2
Gunnersbury	Gunnersbury, Top of stairs to platform	2
Hainault	Hainault, Way in/out barrier in TicketHall	2
Hammersmith (Dis)	Hammersmith (Dis), B' wick gate	4
Hammersmith (Dis)	Hammersmith (Dis), Main Gates	4
Hammersmith (H&C)	Hammersmith (H&C), Way in/out barrier in TicketHall	2
Hampstead, Way	Hampstead, Way in barrier in Ticket Hall	1
Hanger Lane	Hanger Lane, Way in/out barrier in TicketHall	2
Harlesden	Harlesden, Way in/out barrier in TicketHall	2
Harrow & Wealdstone	Harrow & Wealdstone, Harrow Ticket Hall Way in/out barrier	2
Harrow & Wealdstone	Harrow & Wealdstone, Wealdstone TH Way in/out barrier	2
Harrow-on-the-Hill	Harrow-on-the-Hill, LUL- entrance	4
Hatton Cross	Hatton Cross, Way in/out barrier in TicketHall	2
Heathrow Terminals 123	Heathrow Terminals 123, entrance	2
Hendon Central	Hendon Central, Way in/out barrier in TicketHall	2
High Barnet	High Barnet Ticket Hall 1	2
High Barnet	High Barnet Ticket Hall 2	2
High Street Kensington	High Street Kensington, only one entrance	4
Highbury & Islington	Highbury & Islington, LUL - entrance	6
Highgate	Highgate, Top of down escalator & stairs in Ticket Hall	3
Hillingdon	Hillingdon, Way in/out barrier in TicketHall	2

Holborn	Holborn, ENTRY GATES+MAIN GATES	6
Holland Park	Holland Park, Way in/out barrier in TicketHall	1
Holloway Road	Holloway Road, Way in/out barrier in TicketHall	2
Hornchurch	Hornchurch, Way in/out barrier in TicketHall	2
Hounslow Central	Hounslow Central, Way in/out barrier in TicketHall	2
Hounslow East	Hounslow East, Way in/out barriers	2
Hounslow West	Hounslow West, Way in barrier in Ticket Hall	2
Hyde Park Corner	Hyde Park Corner, only one entrance	2
Ickenham	Ickenham, Way in/out barrier in TicketHall	1
Kennington	Kennington, Way in/out barrier in TicketHall	2
Kensal Green	Kensal Green, Way in/out barrier in TicketHall	2
Kentish Town	Kentish Town, Way in/out barrier in TicketHall	2
Kenton	Kenton, Way in/out barrier in TicketHall	2
Kew Gardens	Kew Gardens, Way in barrier on Westbound platform	2
Kew Gardens	Kew Gardens, Way in barriers on Eastbound platform	2
Kilburn	Kilburn, Way in/out barrier in TicketHall	3
Kilburn Park	Kilburn Park	1
King's Cross St. Pancras	King's Cross St. Pancras, Met gates = INNER EXIT G+OUTER EXIT G+MAIN ENTRY	6
King's Cross St. Pancras	King's Cross St. Pancras, Northern TH	6
King's Cross St. Pancras	King's Cross St. Pancras, TMSLNK GATES	6
King's Cross St. Pancras	King's Cross St. Pancras, TUBE GATES	6
Kingsbury	Kingsbury, Way in/out barrier in TicketHall	2
Knightsbridge	Knightsbridge, EAST GATES	2
Knightsbridge	Knightsbridge, WEST GATES	2
Ladbroke Grove	Ladbroke Grove, Way in/out barrier in TicketHall	1
Lambeth North	Lambeth North, only one entrance	2
Latimer Road	Latimer Road, Way in barrier in Ticket Hall	2
Leicester Square	Leicester Square, NTHN GATES	4
Leicester Square	Leicester Square, PICC GATES	4
Leyton	Leyton, only one entrance	4
Leytonstone	Leytonstone, only one entrance	4
Liverpool Street	Liverpool Street, BROAD ST GATES	5
Liverpool Street	Liverpool Street, CENTRAL GATES	6
Liverpool Street	Liverpool Street, MAIN GATES	6
London Bridge	London Bridge, Borough High st gates	3
London Bridge	London Bridge, Main Hall Jubilee Gates	3
London Bridge	London Bridge, Main Hall Northern Gates	3
Loughton	Loughton, Way in/out barrier in TicketHall	2
Maida Vale	Maida Vale, Top of down escalator & stairs in Ticket Hall	2
Mansion House	Mansion House, only one entrance	4
Marble Arch	Marble Arch, MAIN GATES+ENTRY GATES	3
Marylebone	Marylebone, only one entrance	4
Mile End	Mile End, only one entrance	4

Mill Hill East	Mill Hill East, Top of stairs in Ticket Hall	2
Moor Park	Moor Park, Way in/out barrier in TicketHall	2
Moorgate	Moorgate, GREAT NTHN GATES	6
Moorgate	Moorgate, MAIN GATES	4
Moorgate	Moorgate, MET GATES	4
Morden	Morden, only one entrance	4
Mornington Crescent	Mornington Crescent, only one entrance	1
Neasden	Neasden, Way in/out barrier in TicketHall	2
Newbury Park	Newbury Park, Way in/out barrier in TicketHall	2
North Acton	North Acton, Way in/out barriers in Ticket Hall	1
North Ealing	North Ealing, Way in/out barrier in TicketHall	1
North Greenwich	North Greenwich, only one entrance	6
North Harrow	North Harrow, Way in/out barrier in TicketHall	2
North Wembley	North Wembley, Way in/out barrier in TicketHall	2
Northfields	Northfields, Way in/out barrier in TicketHall	2
Northolt	Northolt, Way in/out barrier in TicketHall	2
Northwick Park	Northwick Park, Top of stairs to platforms	2
Northwood	Northwood Hills, Way in/out barrier in TicketHall	2
Northwood Hills	Northwood, Way in/out barrier in TicketHall	2
Notting Hill Gate	Notting Hill Gate, only one entrance	4
Oakwood	Oakwood, Way in barrier in Ticket Hall	2
Old Street	Old Street, GATES	6
Osterley	Osterley, Way in/out barrier in TicketHall	2
Oval	Oval, Way in/out barrier in TicketHall	2
Oxford Circus	Oxford Circus, ARGYLL GATES	4
Oxford Circus	Oxford Circus, LEFT GATES+CENTRE GATES+RIGHT GATES	5
Paddington	Paddington, BAKERLOO GATES	4
Paddington	Paddington, LAWN GATES	4
Paddington	Paddington, PRAED ST GATES	2
Paddington	Paddington, SUBURBAN GATES	4
Park Royal	Park Royal, Way in/out barrier in TicketHall	1
Parsons Green	Parsons Green, Way in/out barrier in TicketHall	4
Perivale	Perivale, Top of stairs to platform	2
Piccadilly Circus	Piccadilly Circus, only one entrance	6
Pimlico	Pimlico, only one entrance	4
Pinner	Pinner, Way in barrier on Northboundplatform	1
Pinner	Pinner, Way in/out barrier in TicketHall	1
Plaistow	Plaistow, only one entrance	2
Preston Road	Preston Road, Way in/out barrier in TicketHall	2
Putney Bridge	Putney Bridge, Way in/out barrier in TicketHall	2
Queen's Park	Queen's Park, Way in/out barrier in TicketHall	2
Queensbury	Queensbury, Way in/out barrier in TicketHall	2
Queensway	Queensway, only one entrance	2

Ravenscourt Park	Ravenscourt Park, Way in/out barrier in TicketHall	2
Rayners Lane	Rayners Lane, Way in/out barrier in TicketHall	2
Redbridge	Redbridge, Way in/out barrier in TicketHall	1
Rickmansworth	Rickmansworth, Way in/out barrier in TicketHall	2
Roding Valley	Roding Valley, Way in/out barrier on platform 1	2
Royal Oak	Royal Oak, Way in/out barrier in TicketHall	1
Ruislip	Ruislip, Way in/out barrier in TicketHall	1
Ruislip Gardens	Ruislip Gardens, Way in/out barrier in TicketHall	2
Ruislip Manor	Ruislip Manor, Way in/out barrier in TicketHall	1
Russell Square	Russell Square, only one entrance	4
Seven Sisters	Seven Sisters, 7 SIS RD GATES	4
Seven Sisters	Seven Sisters, HIGH RD GATES	2
Shepherd's Bush (Cen)	Shepherd's Bush (Cen), Top of down escalator & emergency stairs in Ticket Hall	6
Shepherd's Bush (H&C)	Shepherd's Bush (H&C), Way in barrier in Ticket Hall	2
Sloane Square	Sloane Square, only one entrance	4
Snaresbrook	Snaresbrook, Way in barrier in Ticket Hall on Eastbound platform	2
Snaresbrook	Snaresbrook, Way in barrier on Westbound platform	2
South Ealing	South Ealing, Way in /out barrier in Ticket Hall	2
South Harrow	South Harrow, Way in/out barrier in TicketHall	2
South Kensington	South Kensington, only one entrance	6
South Kenton	South Kenton, Way in/out barrier to/from platform	2
South Ruislip	South Ruislip, Top of stairs to/from Central Line platforms	2
South Woodford	South Woodford, Way in/out barrier on Eastbound platform	2
South Woodford	South Woodford, Way in/out barrier on Westbound platform	2
Southfields	Southfields, Way in/out barrier in TicketHall	2
Southgate	Southgate, Way in/out barrier in TicketHall	1
Southgate	Southgate, Way out barrier	1
Southwark	Southwark, Main Gates	3
Southwark	Southwark, West Gates	2
St. John's Wood	St. John's Wood, Top of down escalator & stairs in Ticket Hall	2
St. Paul's	St. Paul's, ENTRY GATES+MAIN GATES	6
Stamford Brook	Stamford Brook, Way in/out barrier in TicketHall	2
Stanmore	Stanmore, Way in/out barrier in TicketHall	2
Stockwell	Stockwell, only one entrance	4
Stonebridge Park	Stonebridge Park, Way in barrier in Ticket Hall	2
Stratford	Stratford, STRATFORD MEZZANINE T H	6
Stratford	Stratford, STRATFORD NORTHERN T H	5
Stratford	Stratford, STRATFORD T H	6
Sudbury Hill	Sudbury Hill, Way in/out barrier Ticket Hall	1
Sudbury Town	Sudbury Town, Way in/out barrier on Eastbound platform	1
Sudbury Town	Sudbury Town, Way in/out barrier on Westbound platform	1
Swiss Cottage	Swiss Cottage, Top of down escalator & stairs in Ticket Hall	2
Theydon Bois	Theydon Bois, Way in/out barrier in TicketHall	2

Tooting Bec	Tooting Bec, only one entrance	4
Tooting Broadway	Tooting Broadway, only one entrance	4
Tottenham Court Road	Tottenham Court Road, ENTRY GATES+MAIN GATES+EXITGATES	6
Tottenham Hale	Tottenham Hale, only one entrance	4
Totteridge & Whetstone	Totteridge & Whetstone, Way in/out barrier in TicketHall	2
Tower Hill	Tower Hill, ENTRANCE GATES	4
Tower Hill	Tower Hill, EXIT GATES	4
Turnham Green	Turnham Green, Way in/out barrier in TicketHall	2
Turnpike Lane	Turnpike Lane, only one entrance	2
Upminster Bridge	Upminster Bridge, Way in/out barrier in TicketHall	2
Upney	Upney, Way in/out barrier in TicketHall	2
Upton Park	Upton Park, barrier in Ticket Hall Westbound	2
Uxbridge	Uxbridge, only one entrance	2
Vauxhall	Vauxhall, only one entrance	6
Victoria	Victoria, Brassenden Place	6
Victoria	Victoria, DIST GATES	6
Victoria	Victoria, ENTRY GATES+MAIN GATES	6
Walthamstow Central	Walthamstow Central, LUL - entrance	2
Wanstead	Wanstead, Way in /out barrier in Ticket Hall	2
Warren Street	Warren Street, ENTRY GATES+MAIN GATES	6
Warwick Avenue	Warwick Avenue, Top of down escalator & stairs in Ticket Hall	2
Waterloo	Waterloo, JLE Ticket gates	6
Waterloo	Waterloo, middle gates and Bakerloo	6
Waterloo	Waterloo, SHELL GATES	2
Waterloo	Waterloo, ticket window side of main hall gates	4
Watford	Watford, Way in/out barrier in TicketHall	2
Wembley Central	Wembley Central, Way in/out barriers in Ticket Hall	2
Wembley Park	Wembley Park, Way in barrier in Ticket Hall (P1) - amalg the two manual count points	4
West Acton	West Acton, Way in/out barrier in TicketHall	2
West Brompton	West Brompton, Ungated entry/exit with reader	2
West Brompton	West Brompton, Way in/out barrier in TicketHall	2
West Finchley	West Finchley, Way in barrier on Southboundplatforms (P2)	1
West Finchley	West Finchley, Way in/out barrier in TicketHall (P1)	1
West Ham	West Ham, Ticket Hall	2
West Hampstead	West Hampstead, Way in/out barrier in TicketHall	2
West Harrow	West Harrow, Stairs to Westbound platform	1
West Harrow	West Harrow, Way in/out barrier to Eastbound platform	1
West Kensington	West Kensington, platform (Ticket Hall access to station)	2
West Ruislip	West Ruislip, Top of stairs to/form Central Line platforms	2
Westbourne Park	Westbourne Park, Way in/out barrier in TicketHall	2
Westminster	Westminster, only one entrance	5
White City	White City, Way in/out barrier in TicketHall	2
Whitechapel	Whitechapel, only one entrance	4

Willesden Green	Willesden Green, Way in/out barrier in TicketHall	3
Wimbledon Park	Wimbledon Park, Top of stairs to platforms	2
Wood Green	Wood Green, only one entrance	2
Wood Lane	Wood Lane, Way in barrier in Ticket Hall	2
Woodford	Woodford, Way in barrier on Eastboundplatform (P1)	2
Woodford	Woodford, Way in barrier on Westboundplatform (P2)	2
Woodside Park	Woodside Park, Way in barrier on Northboundplatform (P2)	2
Woodside Park	Woodside Park, Way in barrier on Southboundplatform (P1)	2

APPENDIX 4 – SURFACE TRANSPORT LOCATIONS

Mode	Station	5L Dispensers	20L Dispensers
London Bus Station	Vauxhall	1	3
London Bus Station	London Bridge	1	
London Bus Station	West Croydon	1	2
London Bus Station	North Greenwich	1	3
London Bus Station	Hammersmith Upper	1	3
London Bus Station	Euston	1	1
London Bus Station	Finsbury Park Station Pl	1	2
London Bus Station	Victoria	1	
London Bus Station	Stratford Regional	1	4
London Bus Station	Walthamstow Central	1	1
London Bus Station	Edgware	1	
London Bus Station	Harrow	1	
London Bus Station	Waltham Cross	1	
London Bus Station	Canning Town	1	1
London Bus Station	Edmonton Green	1	
London Bus Station	Shepherds Bush	1	
London Bus Station	Canada Water	1	2
London Bus Station	Kingston Cromwell	1	
London Bus Station	Kingston Fairfield	1	
London Bus Station	Crystal Palace	1	
London Bus Station	Addington Village	1	
London Bus Station	Dalston	1	
London Bus Station	Aldgate	1	1
London Bus Station	Hammersmith Lower	1	
London Bus Station	Putney Bridge	1	
London Bus Station	White City Bus Station	1	1
London Bus Station	Finsbury Park Well Tr	1	
London Bus Station	Hampstead Heath	1	
London Bus Station	Tumpike Lane	1	
London Bus Station	Brent Cross	1	
London Bus Station	Liverpool St	2	1
London Bus Station	Golders Green	1	
London Bus Station	Etham	0	1
London River Boat Services	one at bottom of steps	1	
London River Boat Services	At bottom of brows	2	1
London River Boat Services	Bottom of brow	1	
London River Boat Services	Bottom of brow	1	
London River Boat Services	Bottom of brow	1	
London River Boat Services	Bottom of brow	1	
London River Boat Services	Bottom of two brows	1	2
London River Boat Services	Bottom of two brows	1	
Docklands Light Railway	Beckton	2	
Docklands Light Railway	Gallions Reach	1	
Docklands Light Railway	Cyprus	2	
Docklands Light Railway	Beckton Park	1	
Docklands Light Railway	Royal Albert	2	
Docklands Light Railway	Prince Regent	1	

Docklands Light Railway	Custom House	1	
Docklands Light Railway	Royal Victoria	2	
Docklands Light Railway	East India	2	
Docklands Light Railway	Blackwall	1	
Docklands Light Railway	West India Quay	1	
Docklands Light Railway	Canary Wharf	2	
Docklands Light Railway	Heron Quay	2	
Docklands Light Railway	South Quay	2	
Docklands Light Railway	Crosshabour	2	
Docklands Light Railway	Stratford International	3	
Docklands Light Railway	Startford	3	
Docklands Light Railway	Bow Church	2	
Docklands Light Railway	Langdon Park	2	
Docklands Light Railway	Stratford High Street	1	
Docklands Light Railway	Abbey Road	1	
Docklands Light Railway	Star Lane	1	
Docklands Light Railway	Westferry	2	
Docklands Light Railway	Limehouse	2	
Docklands Light Railway	Shadwell	2	
Docklands Light Railway	Tower Gateway	2	
Docklands Light Railway	Poplar	1	
Docklands Light Railway	Pudding Mill Lane	1	
Docklands Light Railway	Devon's Road	1	
Docklands Light Railway	All Saints	1	
Docklands Light Railway	Deptford Bridge	0	
Docklands Light Railway	Greenwich	0	
Docklands Light Railway	Mudchute	2	
Docklands Light Railway	Island Garden	1	
Docklands Light Railway	Elverson Road	0	
Docklands Light Railway	Cutty Sark	1	
Docklands Light Railway	Lewisham	1	
Docklands Light Railway	King George V	2	
Docklands Light Railway	London City Airport	2	
Docklands Light Railway	Pontoon Dock	2	
Docklands Light Railway	West Silvertown	2	
Docklands Light Railway	Woolwich Arsenal	2	
London Overground	Acton Central	1	2
London Overground	Anerley		1
London Overground	Bethnal Green		1
London Overground	Brockley		2
London Overground	Brondesbury		1
London Overground	Brondesbury Park	1	1
London Overground	Bruce Grove		1
London Overground	Bush Hill Park		2
London Overground	Bushey	1	2
London Overground	Caledonian Road & Barnsbury		1
London Overground	Cambridge Heath		1
London Overground	Camden Road	2	1

London Overground	Canonbury		1
London Overground	Carpenders Park	1	1
London Overground	Chingford	1	1
London Overground	Clapham High Street		1
London Overground	Clapham Junction	1	
London Overground	Clapton		1
London Overground	Crouch Hill		2
London Overground	Crystal Palace	1	2
London Overground	Dalston Junction	1	2
London Overground	Dalston Kingsland	1	1
London Overground	Edmonton Green	1	1
London Overground	Emerson Park		1
London Overground	Enfield Town	1	2
London Overground	Finchley Road & Frognal		1
London Overground	Forest Hill	1	2
London Overground	Gospel Oak	1	1
London Overground	Hackney Central	1	1
London Overground	Hackney Downs	1	2
London Overground	Hackney Wick	1	1
London Overground	Haggerston	1	1
London Overground	Hampstead Heath	1	1
London Overground	Harringay Green Lanes		2
London Overground	Hatch End	1	1
London Overground	Headstone Lane	1	1
London Overground	Highams Park	1	2
London Overground	Homerton	1	1
London Overground	Honor Oak Park		2
London Overground	Hoxton	1	1
London Overground	Imperial Wharf		2
London Overground	Kensal Rise		2
London Overground	Kensington Olympia	1	2
London Overground	Kentish Town West	1	1
London Overground	Kilburn High Road		1
London Overground	Leyton Midland Road		1
London Overground	Leytonstone High Road		1
London Overground	Liverpool Street	1	
London Overground	London Fields		1
London Overground	New Cross Gate	1	1
London Overground	Norwood Junction	1	2
London Overground	Penge West		1
London Overground	Rectory Road		1
London Overground	Rotherhithe		1
London Overground	Seven Sisters		2
London Overground	Shadwell	1	1
London Overground	Shepherds Bush	1	2
London Overground	Shoreditch High Street	1	1
London Overground	Silver Street	1	2
London Overground	South Acton	1	2

London Overground	South Hampstead		1
London Overground	South Tottenham		1
London Overground	Southbury		1
London Overground	St James Street		1
London Overground	Stamford Hill		1
London Overground	Stoke Newington		1
London Overground	Surrey Quays	1	1
London Overground	Sydenham	1	2
London Overground	Theobalds Grove		1
London Overground	Turkey Street		1
London Overground	Upper Holloway		2
London Overground	Walthamstow Central	1	2
London Overground	Walthamstow Queens Road		2
London Overground	Wandsworth Road		1
London Overground	Wanstead Park		1
London Overground	Wapping		1
London Overground	Watford High Street	1	1
London Overground	West Croydon	1	2
London Overground	West Hampstead	1	1
London Overground	White Hart Lane	1	1
London Overground	Willesden Junction	2	4
London Overground	Wood Street		1
London Overground	Woodgrange Park		2
Taxi Private Hire	Edgware Station	1	
Taxi Private Hire	Finsbury Park Station	1	
Taxi Private Hire	Harrow on the Hill	1	
Taxi Private Hire	London Bridge	1	
Taxi Private Hire	North Greenwich	1	
Taxi Private Hire	Victoria	1	
Taxi Private Hire	Tottenham Hale	1	
Taxi Private Hire	Stratford Bus station	1	
Victoria Coach Station	East Terminal, West Term	5	2
Emirates Airline	South Terminal	1	
Emirates Airline	South Terminal	1	
Emirates Airline	North Terminal	1	
Emirates Airline	North Terminal	1	
Emirates Airline	Staff Area	1	
Woolwich Ferry	n/a	2	
Woolwich Ferry	n/a	2	
Woolwich Ferry	Office	2	
Woolwich Ferry	Spare units	6	

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APPENDIX 5 – THE PRODUCT, MATERIAL SAFETY DATA SHEET

Product Identifier-1-

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Hand Sanitiser		[WHMIS Classification] Flammable Liquids – Cat 2	
Product Use External use only – apply small amount to area to be sanitised and rub together.			
Manufacturer's Name Summerhall Distillery Ltd		Supplier's Name	
Street Address 1 Summerhall		Street Address	
City Edinburgh	Province City of Edinburgh	City	Province
Postal Code EH9 1PL	Emergency Telephone 0131 2902901	Postal Code	Emergency Telephone
Date MSDS Prepared 01/04/2020	MSDS Prepared By D Quinnell	Phone Number 0131 2902901	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	% by weight	CAS Number
Ethanol	70	64-17-5
Hydrogen Peroxide	4.17	7722-84-1
Glycerol	1.45	56-81-5

SECTION 3 — HAZARDS IDENTIFICATION

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection
--

SECTION 4 — FIRST AID MEASURES

Skin Contact

If skin irritation occurs, rinse affected area with water

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Inhalation

Remove to fresh air

Ingestion

Dilute by giving a large amount of water. Call a physician or Poison Control Center.



SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes	If yes, under which conditions? All	
Means of Extinction Carbon dioxide (CO ₂). Alcohol resistant foam. Dry chemical.		
Flashpoint (° C) and Method 21	Upper Flammable Limit (% by volume) Not established	Lower Flammable Limit (% by volume) Not established
Autoignition Temperature (°C) 365 °C	Explosion Data — Sensitivity to Impact Not established	Explosion Data — Sensitivity to Static Discharge Not established
Hazardous Combustion Products Ethanol		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.
Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving equipment. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate food or feed stuffs. Do not reuse container. Keep out of the reach of children.

Incompatible Materials Strong oxidizers. Hydrogen peroxide. Bromine. Chromic acid.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Chemical Name	ACGIH TLV	OSHA PEL
Glycerol 56-81-5	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes.
Skin and Body Protection No special technical protective measures are necessary.
Respiratory Protection No protective equipment is needed under normal use conditions.
General Hygiene Considerations Do not get in eyes. Keep away from food and drink.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Gel
Appearance Clear colourless liquid
Odor Alcohol
Color Clear
Odor Threshold Not determined

Property	Values	Remarks • Method
pH	6.00-8.00	
Melting Point/Freezing Point	Not established	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	21 °C / 70 °F	SETA
Evaporation Rate	Not established	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not established	
Vapor Density	Not established	
Specific Gravity	.858 - .882	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

SECTION 10 — STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions.
Chemical Stability Stable under recommended storage conditions.
Possibility of Hazardous Reactions None under normal processing.
Hazardous Polymerization Hazardous polymerization does not occur.
Conditions to Avoid Keep out of reach of children.
Incompatible Materials Strong oxidizers. Hydrogen peroxide. Bromine. Chromic acid.
Hazardous Decomposition Products Carbon oxides.

SECTION 11 — TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.
Skin Contact Not expected to be a skin irritant during prescribed use.
Inhalation Avoid breathing vapors or mists.
Ingestion Do not taste or swallow

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long lasting effects.
Persistence/Degradability Not determined
Bioaccumulation Not determined
Mobility
Chemical Name Partition Coefficient
Ethanol 64-17-5 -0.32
Other Adverse Effects Not determined

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14 — TRANSPORT INFORMATION

Note: 100ml and 10,000ml containers, is shipped as Limited Quantity

DOT

UN/ID No UN1170
Proper Shipping Name Ethanol solution
Hazard Class 3
Packing Group II

IATA

UN/ID No UN1170
Proper Shipping Name Ethanol solution
Hazard Class 3
Packing Group II

IMDG

UN/ID No UN1170
Proper Shipping Name Ethanol solution
Hazard Class 3
Packing Group II

SECTION 15 — OTHER INFORMATION

Issue Date 08-APR-2020 **Revision Date: 01-APR-2022**
Revision Note First Issue

DISCLAIMER: This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.