

Northfork Surface Spray Disinfectant Spray On Wipe Off

ACCO Brands New Zealand Limited  
Version No: 1.2  
Safety Data Sheet according to HSNO Regulations

Issue Date: 20/09/2024  
S.GHS.NZL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

|                               |  |
|-------------------------------|--|
| Product name                  | Northfork Surface Spray Disinfectant Spray On Wipe Off             |
| Synonyms                      | Not Available  |
| Other means of identification | 750ml - 631070400, 2L - 631073800, 5L - 631070700, 15L - 631070800 |

Relevant identified uses of the substance or mixture and uses advised against

|                          |                                  |
|--------------------------|----------------------------------|
| Relevant identified uses | Surface Cleaner and Disinfectant |
|--------------------------|----------------------------------|

Details of the supplier of the safety data sheet

|                         |   |
|-------------------------|---|
| Registered company name | ACCO Brands New Zealand Limited                                       |
| Address                 | 29 Pukekiwiri PI, Highbrook Business Park, East Tamaki, Auckland 2013 |
| Telephone               | +64 9 633 2288  |
| Fax                     | +64 9 636 7272 / 0800 500 526   |
| Website                 | www.accobrand.co.nz   |
| Email                   | sds.anz@acco.com  |

Emergency telephone number

|                                   |                         |
|-----------------------------------|-------------------------|
| Association / Organisation        | National Poisons Centre |
| Emergency telephone numbers       | 0800 764 766            |
| Other emergency telephone numbers | 0800 764 766            |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

|   |  |
|---|--|
| Classification [1]                              | Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Acute Aquatic Hazard Category 2        |
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |
| Determined by Chemwatch using GHS/HSNO criteria | 6.1E (oral), 6.3A, 6.4A, 9.1D  |

Label elements

|                     |  |
|---------------------|--|
| Hazard pictogram(s) |  |
|---------------------|--|

|             |         |
|-------------|---------|
| SIGNAL WORD | WARNING |
|-------------|---------|

Hazard statement(s)

|      |                                |
|------|--------------------------------|
| H303 | May be harmful if swallowed.   |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |
| H401 | Toxic to aquatic life.         |

Precautionary statement(s) General

|      |   |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.  |
| P103 | Read label before use.  |

Precautionary statement(s) Prevention

|      |  |
|------|--|
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Northfork Surface Spray Disinfectant Spray On Wipe Off

Precautionary statement(s) Response

|                |  |
|----------------|--|
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |
| P321           | Specific treatment (see advice on this label).   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

|      |   |
|------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|------|---|

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No     | %[weight] | Name                                   |
|------------|-----------|--|
| 7732-18-5  | >60%      | <u>water</u>                           |
| 111-76-2   | <10%      | <u>ethylene glycol monobutyl ether</u> |
| 8001-54-5  | <10%      | <u>benzalkonium chloride</u>           |
| 68131-39-5 | <10%      | <u>alcohols C12-15 ethoxylated</u>     |
| 64-17-5    | <10%      | <u>ethanol</u>                         |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

|              |  |
|--------------|--|
| Eye Contact  | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"><li>▶ Wash out immediately with water.</li><li>▶ If irritation continues, seek medical attention.</li><li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li></ul> |
| Skin Contact | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"><li>▶ Flush skin and hair with running water (and soap if available).</li><li>▶ Seek medical attention in event of irritation.</li></ul>  |
| Inhalation   | <ul style="list-style-type: none"><li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li><li>▶ Other measures are usually unnecessary.</li></ul>   |
| Ingestion    | <ul style="list-style-type: none"><li>▶ Immediately give a glass of water.</li><li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li></ul>   |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.  
For acute or short term repeated exposures to ethylene glycol:

- ▶ Early treatment of ingestion is important. Ensure emesis is satisfactory.
- ▶ Test and correct for metabolic acidosis and hypocalcaemia.
- ▶ Apply sustained diuresis when possible with hypertonic mannitol.
- ▶ Evaluate renal status and begin haemodialysis if indicated. [I.L.O.]
- ▶ Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- ▶ Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- ▶ Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- ▶ Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.
- ▶ Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

[Ellenhorn and Barceloux: Medical Toxicology]  
It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures.  
*Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600*

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.  
Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.  
In such an event consider:

- ▶ foam.

## Northfork Surface Spray Disinfectant Spray On Wipe Off

- ▶ dry chemical powder.
- ▶ carbon dioxide.

### Special hazards arising from the substrate or mixture

|                      |             |
|----------------------|-------------|
| Fire Incompatibility | None known. |
|----------------------|-------------|

### Advice for firefighters

|                       |   |
|-----------------------|---|
| Fire Fighting         | <ul style="list-style-type: none"><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li><li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li><li>▶ Use fire fighting procedures suitable for surrounding area.</li><li>▶ <b>DO NOT</b> approach containers suspected to be hot.</li><li>▶ Cool fire exposed containers with water spray from a protected location.</li><li>▶ If safe to do so, remove containers from path of fire.</li><li>▶ Equipment should be thoroughly decontaminated after use.</li></ul>                          |
| Fire/Explosion Hazard | <ul style="list-style-type: none"><li>▶ The material is not readily combustible under normal conditions.</li><li>▶ However, it will break down under fire conditions and the organic component may burn.</li><li>▶ Not considered to be a significant fire risk.</li><li>▶ Heat may cause expansion or decomposition with violent rupture of containers.</li><li>▶ Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li><li>▶ May emit acrid smoke.</li></ul> <p>Decomposes on heating and produces toxic fumes of:<br/>carbon dioxide (CO<sub>2</sub>)<br/>other pyrolysis products typical of burning organic material.<br/>May emit poisonous fumes.</p> |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

### Methods and material for containment and cleaning up

|              |   |
|--------------|---|
| Minor Spills | <p>Environmental hazard - contain spillage.</p> <ul style="list-style-type: none"><li>▶ Clean up all spills immediately.</li><li>▶ Avoid breathing vapours and contact with skin and eyes.</li><li>▶ Control personal contact with the substance, by using protective equipment.</li><li>▶ Contain and absorb spill with sand, earth, inert material or vermiculite.</li><li>▶ Wipe up.</li><li>▶ Place in a suitable, labelled container for waste disposal.</li></ul>   |
| Major Spills | <p>Environmental hazard - contain spillage.<br/>Moderate hazard.</p> <ul style="list-style-type: none"><li>▶ Clear area of personnel and move upwind.</li><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ Wear breathing apparatus plus protective gloves.</li><li>▶ Prevent, by any means available, spillage from entering drains or water course.</li><li>▶ Stop leak if safe to do so.</li><li>▶ Contain spill with sand, earth or vermiculite.</li><li>▶ Collect recoverable product into labelled containers for recycling.</li></ul> |

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

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

|                   |  |
|-------------------|--|
| Safe handling     | <ul style="list-style-type: none"><li>▶ Avoid all personal contact, including inhalation.</li><li>▶ Wear protective clothing when risk of exposure occurs.</li><li>▶ Use in a well-ventilated area.</li><li>▶ Prevent concentration in hollows and sumps.</li><li>▶ <b>DO NOT</b> enter confined spaces until atmosphere has been checked.</li><li>▶ <b>DO NOT</b> allow material to contact humans, exposed food or food utensils.</li><li>▶ Avoid contact with incompatible materials.</li><li>▶ <b>When handling, DO NOT</b> eat, drink or smoke.</li></ul> |
| Other information |  |

### Conditions for safe storage, including any incompatibilities

|                    |   |
|--------------------|---|
| Suitable container | <ul style="list-style-type: none"><li>▶ Polyethylene or polypropylene container.</li><li>▶ Packing as recommended by manufacturer.</li><li>▶ Check all containers are clearly labelled and free from leaks.</li></ul> |
|--------------------|---|

Continued...

## Northfork Surface Spray Disinfectant Spray On Wipe Off

### Storage incompatibility

Ethylene glycol monobutyl ether (2-butoxyethanol) and its acetate:

- ▶ May form unstable peroxides in storage
- ▶ is incompatible with oxidisers, permanganates, peroxides, ammonium persulfate, bromine dioxide, nitrates, strong acids, sulfuric acid, nitric acid, perchloric acid

None known

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA


| Source   | Ingredient                      | Material name                        | TWA                               | STEL          | Peak          | Notes                    |
|--|---------------------------------|--------------------------------------|-----------------------------------|---------------|---------------|--------------------------|
| New Zealand Workplace Exposure Standards (WES) | ethylene glycol monobutyl ether | 2-Butoxyethanol (Butyl glycol ether) | 25 ppm / 121 mg/m <sup>3</sup>    | Not Available | Not Available | (skin) - Skin absorption |
| New Zealand Workplace Exposure Standards (WES) | ethanol                         | Ethyl alcohol (Ethanol)              | 1000 ppm / 1880 mg/m <sup>3</sup> | Not Available | Not Available | Not Available            |

#### EMERGENCY LIMITS

| Ingredient                      | Material name   | TEEL-1                 | TEEL-2               | TEEL-3               |
|---------------------------------|---|------------------------|----------------------|----------------------|
| ethylene glycol monobutyl ether | Butoxyethanol, 2-; (Glycol ether EB)                            | 60 ppm                 | 120 ppm              | 700 ppm              |
| benzalkonium chloride           | Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride) | 0.91 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup> | 60 mg/m <sup>3</sup> |
| ethanol                         | Ethyl alcohol; (Ethanol)  | Not Available          | Not Available        | 15000 ppm            |

| Ingredient                      | Original IDLH | Revised IDLH  |
|---------------------------------|---------------|---------------|
| water                           | Not Available | Not Available |
| ethylene glycol monobutyl ether | 700 ppm       | Not Available |
| benzalkonium chloride           | Not Available | Not Available |
| alcohols C12-15 ethoxylated     | Not Available | Not Available |
| ethanol                         | 3,300 ppm     | Not Available |

### Exposure controls

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>General exhaust is adequate under normal operating conditions.</p> |
| <b>Personal protection</b>              |    |
| <b>Eye and face protection</b>          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. [AS/NZS 1336 or national equivalent]</li> </ul>                      |
| <b>Skin protection</b>                  | See Hand protection below   |
| <b>Hands/feet protection</b>            | <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.</p> <p>Suitability and durability of glove type is dependent on usage.</p> <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>                      |
| <b>Body protection</b>                  | See Other protection below  |
| <b>Other protection</b>                 | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> <li>▶ Skin cleansing cream.</li> </ul>   |

Continued...

## Northfork Surface Spray Disinfectant Spray On Wipe Off

► Eye wash unit.

### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

Spray On Wipe Off

| Material          | CPI |
|-------------------|-----|
| BUTYL             | A   |
| NEOPRENE          | B   |
| NAT+NEOPR+NITRILE | C   |
| NATURAL RUBBER    | C   |
| NATURAL+NEOPRENE  | C   |
| NITRILE           | C   |
| NITRILE+PVC       | C   |
| PE/EVAL/PE        | C   |
| PVA               | C   |
| PVC               | C   |
| SARANEX-23        | C   |
| VITON             | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator  |
|------------------------------------|----------------------|----------------------|-------------------------|
| up to 5 x ES                       | A-AUS / Class 1 P2   | -                    | A-PAPR-AUS / Class 1 P2 |
| up to 25 x ES                      | Air-line*            | A-2 P2               | A-PAPR-2 P2             |
| up to 50 x ES                      | -                    | A-3 P2               | -                       |
| 50+ x ES                           | -                    | Air-line**           | -                       |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

| Appearance                                   | A clear liquid |   |               |
|--|----------------|---|---------------|
| Physical state                               | Liquid         | Relative density (Water = 1)            | 0.98-1.02     |
| Odour  | Not Available  | Partition coefficient n-octanol / water | Not Available |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied)                             | 6-8            | Decomposition temperature               | Not Available |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                         | Not Available |
| Initial boiling point and boiling range (°C) | Not Available  | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | Not Available  | Taste                                   | Not Available |
| Evaporation rate                             | Not Available  | Explosive properties                    | Not Available |
| Flammability                                 | Not Available  | Oxidising properties                    | Not Available |
| Upper Explosive Limit (%)                    | Not Available  | Surface Tension (dyn/cm or mN/m)        | Not Available |
| Lower Explosive Limit (%)                    | Not Available  | Volatile Component (%vol)               | Not Available |
| Vapour pressure (kPa)                        | Not Available  | Gas group                               | Not Available |
| Solubility in water                          | Miscible       | pH as a solution (1%)                   | Not Available |
| Vapour density (Air = 1)                     | Not Available  | VOC g/L                                 | Not Available |

## SECTION 10 STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | See section 7  |
| Chemical stability                 | <ul style="list-style-type: none"> <li>► Unstable in the presence of incompatible materials.</li> <li>► Product is considered stable.</li> <li>► Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |

Continued...

## Northfork Surface Spray Disinfectant Spray On Wipe Off

|   |               |
|---|---------------|
| <b>Conditions to avoid</b>              | See section 7 |
| <b>Incompatible materials</b>           | See section 7 |
| <b>Hazardous decomposition products</b> | See section 5 |

### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | 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. Not normally a hazard due to non-volatile nature of product  |
| <b>Ingestion</b>    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.<br>Severe acute exposure to ethylene glycol monobutyl ether, by ingestion, may cause kidney damage and blood in the urine, and is potentially fatal.  |
| <b>Skin Contact</b> | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Ethylene glycol monobutyl ether penetrates the skin easily and will cause more harm on skin contact than through inhalation.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| <b>Eye</b>          | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).<br>Ethylene glycol monobutyl ether may cause pain, redness and damage to the eyes.  |
| <b>Chronic</b>      | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.<br>Prolonged exposure to ethanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents.   |

|  |   |  |
|--|---|--|
| <b>Spray On Wipe Off</b>               | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|  | Not Available   | Not Available  |
| <b>water</b>                           | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|  | Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>            | Not Available  |
| <b>ethylene glycol monobutyl ether</b> | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|  | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>           | Eye (rabbit): 100 mg SEVERE                                      |
|  | Inhalation (rat) LC50: 449.48655 mg/l/4H <sup>[2]</sup> | Eye (rabbit): 100 mg/24h-moderate                                |
|  | Oral (rat) LD50: 250 mg/kg <sup>[2]</sup>               | Eye: adverse effect observed (irritating) <sup>[1]</sup>         |
|  |   | Skin (rabbit): 500 mg, open; mild                                |
|  |   | Skin: adverse effect observed (irritating) <sup>[1]</sup>        |
| <b>benzalkonium chloride</b>           | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|  | Dermal (rabbit) LD50: 1560 mg/kg <sup>[2]</sup>         | Eye (human): 0.05 mg SEVERE                                      |
|  | Oral (rat) LD50: 240 mg/kg <sup>[2]</sup>               | Eye (rabbit): 1mg/24h SEVERE                                     |
|  |   | Skin (human): 0.15 mg/72h mild                                   |
| <b>alcohols C12-15 ethoxylated</b>     | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|  | Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>        | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|  | Oral (rat) LD50: 1600 mg/kg <sup>[2]</sup>              | Eye: SEVERE *  |
|  |   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| <b>ethanol</b>                         | <b>TOXICITY</b>   | <b>IRRITATION</b>  |
|  | Inhalation (rat) LC50: 124.7 mg/l/4H <sup>[2]</sup>     | Eye (rabbit): 500 mg SEVERE                                      |
|  | Oral (rat) LD50: ≈1501 mg/kg <sup>[2]</sup>             | Eye (rabbit): 100mg/24hr-moderate                                |
|  |   | Eye: adverse effect observed (irritating) <sup>[1]</sup>         |
|  |   | Skin (rabbit): 20 mg/24hr-moderate                               |
|  |   | Skin (rabbit): 400 mg (open)-mild                                |
|  |   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |

## Northfork Surface Spray Disinfectant Spray On Wipe Off

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. \* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|  |  |
|--|--|
| <b>ETHYLENE GLYCOL MONOBUTYL ETHER</b>                                   | <p>NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to high concentrations of this substance by all routes. ** ASCC (NZ) SDS</p> <p>For ethylene glycol monoalkyl ethers and their acetates (EGMAEs):</p> <p>Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE) and their acetates.</p> <p>EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). Further, rapid conversion of the aldehydes by aldehyde dehydrogenase produces alkoxyacetic acids, which are the predominant urinary metabolites of mono substituted glycol ethers.</p> <p><b>Acute Toxicity:</b> Oral LD50 values in rats for all category members range from 739 (EGHE) to 3089 mg/kg bw (EGPE), with values increasing with decreasing molecular weight. Four to six hour acute inhalation toxicity studies were conducted for these chemicals in rats at the highest vapour concentrations practically achievable. Values range from LC0 &gt; 85 ppm (508 mg/m<sup>3</sup>) for EGHE, LC50 &gt; 400ppm (2620 mg/m<sup>3</sup>) for EGBEA to LC50 &gt; 2132 ppm (9061 mg/m<sup>3</sup>) for EGPE. No lethality was observed for any of these materials under these conditions. Dermal LD50 values in rabbits range from 435 mg/kg bw (EGBE) to 1500 mg/kg bw (EGBEA).</p> <p>Animal testing showed that exposure to ethylene glycol monobutyl ether resulted in toxicity to both the mother and the embryo. Reproductive effects were thought to be less than that of other monoalkyl ethers of ethylene glycol.</p> <p>Chronic exposure may cause anaemia, with enlargement and fragility of red blood cells. It is thought that in animals butoxyethanol may cause generalized clotting and bone infarction. In animals, 2-butoxyethanol also increased the rate of some cancers, including liver cancer.</p> <p>For ethylene glycol:</p> <p>Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. Following absorption, it is distributed throughout the body. In humans, it is initially metabolized by alcohol dehydrogenase to form glycoaldehyde, which is rapidly converted to glycolic acid and glyoxal. These breakdown products are oxidized to glyoxylate, which may be further metabolized to formic acid, oxalic acid, and glycine. Breakdown of both glycine and formic acid can generate carbon dioxide, which is one of the major elimination products of ethylene glycol. In addition to exhaled carbon dioxide, ethylene glycol is eliminated in the urine as both the parent compound and glycolic acid. Elimination is rapid and occurs within a few hours.</p> |
| <b>BENZALKONIUM CHLORIDE</b>   | <p>Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.</p> <p>Alkyldimethylbenzylammonium chlorides are in the list of dangerous substances of council directive, classified as "harmful in contact with skin and on ingestion", and "corrosive and very toxic to aquatic organisms". It can cause dose dependent skin and eye irritation with possible deterioration of vision, possible sensitisation in those with pre-existing eczema. It does not cause cancer, genetic defect, foetal or developmental abnormality.</p>  |
| <b>ALCOHOLS C12-15 ETHOXYLATED</b>                                       | <p>Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products.</p> <p>Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitizers. The oxidation products also cause irritation.</p> <p>Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents and other cleaning products. Exposure to these chemicals can occur through swallowing, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that relatively high volumes would have to occur to produce any toxic response. No death due to poisoning with alcohol ethoxylates has ever been reported.</p> <p>Studies show that alcohol ethoxylates have low toxicity through swallowing and skin contact.</p> <p>Animal studies show these chemicals may produce gastrointestinal irritation, stomach ulcers, hair standing up, diarrhea and lethargy. Slight to severe irritation occurred when undiluted alcohol ethoxylates were applied to the skin and eyes of animals. These chemicals show no indication of genetic toxicity or potential to cause mutations and cancers.</p> <p>Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed.</p> <p>Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma. Death may result in experimental animal. However, repeated exposure may cause dose dependent damage to the kidneys as well as reproductive and developmental defects.</p> <p>for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9)</p>   |
| <b>Spray On Wipe Off &amp; WATER</b>                                     | No significant acute toxicological data identified in literature search.   |
| <b>ETHYLENE GLYCOL MONOBUTYL ETHER &amp; ALCOHOLS C12-15 ETHOXYLATED</b> | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.   |
| <b>ETHYLENE GLYCOL MONOBUTYL ETHER &amp; ETHANOL</b>                     | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.   |

|  |   |                                 |   |
|--|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✓ | <b>Carcinogenicity</b>          | ✗ |
| <b>Skin Irritation/Corrosion</b>         | ✓ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✓ | <b>STOT - Single Exposure</b>   | ✗ |
| <b>Respiratory or Skin sensitisation</b> | ✗ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

|                          | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
|--------------------------|----------|--------------------|---------|-------|--------|
| <b>Spray On Wipe Off</b> |          |                    |         |       |        |

Continued...

Northfork Surface Spray Disinfectant Spray On Wipe Off

|                                 |               |                    |                               |               |               |
|---------------------------------|---------------|--------------------|-------------------------------|---------------|---------------|
|                                 | Not Available | Not Available      | Not Available                 | Not Available | Not Available |
| water                           | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                 | LC50          | 96                 | Fish                          | 897.520mg/L   | 3             |
|                                 | EC50          | 96                 | Algae or other aquatic plants | 8768.874mg/L  | 3             |
| ethylene glycol monobutyl ether | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                 | LC50          | 96                 | Fish                          | 1-700mg/L     | 2             |
|                                 | EC50          | 48                 | Crustacea                     | ca.1-800mg/L  | 2             |
|                                 | EC50          | 72                 | Algae or other aquatic plants | 1-840mg/L     | 2             |
|                                 | NOEC          | 24                 | Crustacea                     | >1-mg/L       | 2             |
| benzalkonium chloride           | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                 | LC50          | 96                 | Fish                          | 0.32mg/L      | 4             |
|                                 | EC50          | 48                 | Crustacea                     | 0.018mg/L     | 4             |
|                                 | EC50          | 72                 | Algae or other aquatic plants | 0.056mg/L     | 4             |
|                                 | NOEC          | 1                  | Algae or other aquatic plants | 0.0025mg/L    | 4             |
| alcohols C12-15 ethoxylated     | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                 | LC50          | 96                 | Fish                          | 0.59mg/L      | 2             |
|                                 | EC50          | 48                 | Crustacea                     | 0.13mg/L      | 2             |
|                                 | EC50          | 72                 | Algae or other aquatic plants | 0.3mg/L       | 2             |
|                                 | NOEC          | 48                 | Crustacea                     | 0.056mg/L     | 2             |
| ethanol                         | ENDPOINT      | TEST DURATION (HR) | SPECIES                       | VALUE         | SOURCE        |
|                                 | LC50          | 96                 | Fish                          | 11-mg/L       | 2             |
|                                 | EC50          | 48                 | Crustacea                     | 2mg/L         | 4             |
|                                 | EC50          | 96                 | Algae or other aquatic plants | 17.921mg/L    | 4             |
|                                 | NOEC          | 2016               | Fish                          | 0.000375mg/L  | 4             |

**Legend:** *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Harmful to aquatic organisms.  
For Ethelene Glycol Monoalkyl Ethers and their Acetates:  
log BCF: 0.463 to 0.732;  
LC50 : 94 to > 5000 mg/L. (aquatic species).  
Members of this category include ethylene glycol propyl ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE).  
Environmental Fate: Aquatic Fate - The ethers possess no functional groups that are readily subject to hydrolysis in the presence of waters. The acetates possess an ester group that hydrolyses in neutral ambient water under abiotic conditions. Will partition predominately to water and, to a lesser extent, to air and soil. Soil - Highly mobile in soil.  
Ecotoxicity: Ethelene glycol monoalkyl ethers and their acetates are readily biodegradable.  
**DO NOT discharge into sewer or waterways.**

Persistence and degradability

| Ingredient                      | Persistence: Water/Soil     | Persistence: Air            |
|---------------------------------|-----------------------------|-----------------------------|
| water                           | LOW                         | LOW                         |
| ethylene glycol monobutyl ether | LOW (Half-life = 56 days)   | LOW (Half-life = 1.37 days) |
| ethanol                         | LOW (Half-life = 2.17 days) | LOW (Half-life = 5.08 days) |

Bioaccumulative potential

| Ingredient                      | Bioaccumulation      |
|---------------------------------|----------------------|
| water                           | LOW (LogKOW = -1.38) |
| ethylene glycol monobutyl ether | LOW (BCF = 2.51)     |
| ethanol                         | LOW (LogKOW = -0.31) |

Mobility in soil

| Ingredient                      | Mobility         |
|---------------------------------|------------------|
| water                           | LOW (KOC = 14.3) |
| ethylene glycol monobutyl ether | HIGH (KOC = 1)   |
| ethanol                         | HIGH (KOC = 1)   |

SECTION 13 DISPOSAL CONSIDERATIONS



Northfork Surface Spray Disinfectant Spray On Wipe Off

Waste treatment methods

|                              |  |
|------------------------------|--|
| Product / Packaging disposal | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"><li>▶ Reduction</li><li>▶ Reuse</li><li>▶ Recycling</li><li>▶ Disposal (if all else fails)</li></ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</p> <ul style="list-style-type: none"><li>▶ <b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></li><li>▶ It may be necessary to collect all wash water for treatment before disposal.</li><li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li><li>▶ Where in doubt contact the responsible authority.</li><li>▶ Recycle wherever possible.</li><li>▶ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li><li>▶ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li><li>▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li></ul> |
|------------------------------|--|

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 TRANSPORT INFORMATION

Labels Required

|                  |                |
|------------------|----------------|
| Marine Pollutant | NO             |
| HAZCHEM          | Not Applicable |

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

|            |   |
|------------|---|
| HSR Number | Group Standard  |
| HSR2530    | Cleaning Products (Subsidiary Hazard) Group Standard 2017 |

Northfork Surface Spray Disinfectant Spray On Wipe Off

WATER 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) |
|--|--|

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| GESAMP/EHS Composite List - GESAMP Hazard Profiles  | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals                       |
| IMO IBC Code Chapter 17: Summary of minimum requirements                                      | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances                                 | New Zealand Inventory of Chemicals (NZIoC)  |
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs | New Zealand Workplace Exposure Standards (WES)  |
| International Air Transport Association (IATA) Dangerous Goods Regulations                    | United Nations Recommendations on the Transport of Dangerous Goods Model Regulations                              |
| International Maritime Dangerous Goods Requirements (IMDG Code)                               |   |

BENZALKONIUM CHLORIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| International Air Transport Association (IATA) Dangerous Goods Regulations                  | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| International Maritime Dangerous Goods Requirements (IMDG Code)                             | New Zealand Inventory of Chemicals (NZIoC)  |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | United Nations Recommendations on the Transport of Dangerous Goods Model Regulations                              |

ALCOHOLS C12-15 ETHOXYLATED IS FOUND ON THE FOLLOWING REGULATORY LISTS

|  |   |
|--|---|
| GESAMP/EHS Composite List - GESAMP Hazard Profiles                         | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals                       |
| IMO IBC Code Chapter 17: Summary of minimum requirements                   | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk  | New Zealand Inventory of Chemicals (NZIoC)  |
| International Air Transport Association (IATA) Dangerous Goods Regulations | New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits                                |
| International Maritime Dangerous Goods Requirements (IMDG Code)            | United Nations Recommendations on the Transport of Dangerous Goods Model Regulations                              |

ETHANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

|   |   |
|---|---|
| GESAMP/EHS Composite List - GESAMP Hazard Profiles  | International Maritime Dangerous Goods Requirements (IMDG Code)   |
| IMO IBC Code Chapter 17: Summary of minimum requirements  | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals                       |
| IMO IBC Code Chapter 18: List of products to which the Code does not apply  | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data |
| IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances   | New Zealand Inventory of Chemicals (NZIoC)  |
| IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO                           | New Zealand Workplace Exposure Standards (WES)  |
| IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards | United Nations Recommendations on the Transport of Dangerous Goods Model Regulations                              |
| International Air Transport Association (IATA) Dangerous Goods Regulations  |   |

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Quantity beyond which controls apply for closed containers | Quantity beyond which controls apply when use occurring in open containers |
|----------------|--|--|
| Not Applicable | Not Applicable   | Not Applicable   |

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

Refer Group Standards for further information

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory | Status |
|--------------------|--------|
|--------------------|--------|

Northfork Surface Spray Disinfectant Spray On Wipe Off

|                               |  |
|-------------------------------|--|
| Australia - AICS              | Yes  |
| Canada - DSL                  | Yes  |
| Canada - NDSL                 | No (ethanol; water; alcohols C12-15 ethoxylated; ethylene glycol monobutyl ether; benzalkonium chloride)   |
| China - IECSC                 | Yes  |
| Europe - EINEC / ELINCS / NLP | Yes  |
| Japan - ENCS                  | No (alcohols C12-15 ethoxylated; benzalkonium chloride)  |
| Korea - KECI                  | Yes  |
| New Zealand - NZIoC           | Yes  |
| Philippines - PICCS           | Yes  |
| USA - TSCA                    | Yes  |
| Taiwan - TCSI                 | Yes  |
| Mexico - INSQ                 | Yes  |
| Vietnam - NCI                 | Yes  |
| Russia - ARIPS                | Yes  |
| Legend:                       | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average  
PC – STEL: Permissible Concentration-Short Term Exposure Limit  
IARC: International Agency for Research on Cancer  
ACGIH: American Conference of Governmental Industrial Hygienists  
STEL: Short Term Exposure Limit  
TEEL: Temporary Emergency Exposure Limit,  
IDLH: Immediately Dangerous to Life or Health Concentrations  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

Powered by AuthorITe, from Chemwatch.