

CLEANER SPRAY DETTOL APPLE MULTI PURPOSE 500ML

Officemax

Chemwatch: 4894-72

Version No: 3.1.1.1

Safety Data Sheet according to HSNO Regulations

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S.GHS.NZL.EN

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

Product Identifier

| | |
|-------------------------------|--|
| Product name | CLEANER SPRAY DETTOL APPLE MULTI PURPOSE 500ML |
| Synonyms | Part Number: 2657821 |
| Other means of identification | Not Available |

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

| | |
|--------------------------|------------------------|
| Relevant identified uses | Multi-purpose cleaner. |
|--------------------------|------------------------|

Details of the supplier of the safety data sheet

| | |
|-------------------------|---|
| Registered company name | Officemax |
| Address | 30 Sir Woolf Fisher Drive East Tamaki Manukau New Zealand |
| Telephone | 0800 426 473 |
| Fax | 0800 226 473 |
| Website | www.officemax.co.nz |
| Email | enquiries@officemax.co.nz |

Emergency telephone number

| | |
|-----------------------------------|------------------------------|
| Association / Organisation | CHEMWATCH EMERGENCY RESPONSE |
| Emergency telephone numbers | +64 800 700 112 |
| Other emergency telephone numbers | +61 2 9186 1132 |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.


CHEMWATCH HAZARD RATINGS

| | Min | Max |
|--------------|-----|-----|
| Flammability | 0 | |
| Toxicity | 0 | |
| Body Contact | 2 | |
| Reactivity | 1 | |
| Chronic | 0 | |

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

| | |
|---|---|
| Classification [1] | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), 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 (respiratory), 6.3A, 6.4A, 9.1D |

Label elements

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

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

Hazard statement(s)

| | |
|-------------|-----------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H401 | Toxic to aquatic life. |

Precautionary statement(s) Prevention

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|-------------|--|
| P271 | Use only outdoors or in a well-ventilated area. |
| P261 | Avoid breathing mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Precautionary statement(s) Response

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|-----------------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |

Precautionary statement(s) Storage

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|------------------|--|
| P405 | Store locked up. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

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 |
|---------------|-----------|---|
| 77-92-9 | <10 | <u>citric acid</u> |
| 68081-81-2 | <10 | <u>(C10-16)alkylbenzenesulfonic acid, sodium salt</u> |
| 68439-46-3 | <10 | <u>alcohols C9-11 ethoxylated</u> |
| 41593-38-8 | <1 | <u>propylene glycol phenyl ether</u> |
| 53633-54-8 | <1 | <u>vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate</u> |
| Not Available | <1 | fragrance |
| Not Available | >60 | other ingredients, nonhazardous |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

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|---------------------|---|
| Eye Contact | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with fresh running water. ▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. |

| | |
|-------------------|--|
| Inhalation | <ul style="list-style-type: none"> ▶ If fumes or combustion products are inhaled remove from contaminated area. ▶ Lay patient down. Keep warm and rested. ▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. ▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. ▶ Transport to hospital, or doctor. |
| Ingestion | <ul style="list-style-type: none"> ▶ If swallowed do NOT induce vomiting. ▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. ▶ Observe the patient carefully. ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

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| Fire Incompatibility | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-----------------------------|--|

Advice for firefighters

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|------------------------------|--|
| Fire Fighting | <ul style="list-style-type: none"> ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves in the event of a fire. ▶ Prevent, by any means available, spillage from entering drains or water courses. ▶ Use fire fighting procedures suitable for surrounding area. |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> ▶ The material is not readily combustible under normal conditions. ▶ However, it will break down under fire conditions and the organic component may burn. ▶ Not considered to be a significant fire risk. ▶ Heat may cause expansion or decomposition with violent rupture of containers. <p>Other decomposition products include: carbon dioxide (CO₂) sulfur oxides (SO_x) other pyrolysis products typical of burning organic material.</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 | <ul style="list-style-type: none"> ▶ Clean up all spills immediately. ▶ Avoid breathing vapours and contact with skin and eyes. ▶ Control personal contact with the substance, by using protective equipment. ▶ Contain and absorb spill with sand, earth, inert material or vermiculite. |
| Major Spills | <p>Moderate hazard.</p> <ul style="list-style-type: none"> ▶ Clear area of personnel and move upwind. ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves. |

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

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|----------------------|---|
| Safe handling | <ul style="list-style-type: none"> ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. |
|----------------------|---|

| | |
|--------------------------|--|
| | <ul style="list-style-type: none"> ▶ Avoid contact with moisture. ▶ DO NOT allow clothing wet with material to stay in contact with skin |
| Other information | <ul style="list-style-type: none"> ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ Store in a cool, dry, well-ventilated area. ▶ Store away from incompatible materials and foodstuff containers. |

Conditions for safe storage, including any incompatibilities

| | |
|--------------------------------|---|
| Suitable container | <ul style="list-style-type: none"> ▶ Polyethylene or polypropylene container. ▶ Packing as recommended by manufacturer. ▶ Check all containers are clearly labelled and free from leaks. |
| Storage incompatibility | <ul style="list-style-type: none"> ▶ Avoid reaction with oxidising agents |

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA


Not Available

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|--|--|-----------------------|----------------------|----------------------|
| (C10-16)alkylbenzenesulfonic acid, sodium salt | Sodium dodecylbenzenesulfonate; (Dodecyl benzene sodium sulfonate) | 2.1 mg/m ³ | 23 mg/m ³ | 87 mg/m ³ |

| Ingredient | Original IDLH | Revised IDLH |
|--|---------------|---------------|
| citric acid | Not Available | Not Available |
| (C10-16)alkylbenzenesulfonic acid, sodium salt | Not Available | Not Available |
| alcohols C9-11 ethoxylated | Not Available | Not Available |
| propylene glycol phenyl ether | Not Available | Not Available |
| vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate | Not Available | Not Available |

Exposure controls

| | |
|---|---|
| Appropriate engineering controls | <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.</p> |
| Personal protection |  |
| Eye and face protection | <ul style="list-style-type: none"> ▶ Safety glasses with side shields. ▶ Chemical goggles. ▶ 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. |
| Skin protection | See Hand protection below |
| Hands/feet protection | <ul style="list-style-type: none"> ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber <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.</p> |
| Body protection | See Other protection below |
| Other protection | <ul style="list-style-type: none"> ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream. |

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face Respirator | Full-Face Respirator |
|------------------------------------|--|----------------------|----------------------|
| up to 10 | 1000 | A-AUS / Class1 P2 | - |
| up to 50 | 1000 | - | A-AUS / Class 1 P2 |
| up to 50 | 5000 | Airline * | - |
| up to 100 | 5000 | - | A-2 P2 |
| up to 100 | 10000 | - | A-3 P2 |
| 100+ | | | Airline** |

* - Continuous Flow ** - Continuous-flow or positive pressure demand

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(SO₂), G = Agricultural chemicals, K = Ammonia(NH₃), 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 | Clear colourless liquid with an apple odour; mixes with water. | | |
|--|--|---|----------------|
| Physical state | Liquid | Relative density (Water = 1) | 1.006-1.026 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | 2.7-3.3 | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 100 | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | 2.3 | 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

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

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

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|---------------------|--|
| Inhaled | Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea. |
| Ingestion | The material has NOT 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. |
| Skin Contact | There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material |
| Eye | There is some evidence to suggest that this material can cause eye irritation and damage in some persons. |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. |

| | | |
|---|--|--|
| CLEANER SPRAY DETTOL APPLE MULTI PURPOSE 500ML | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| citric acid | TOXICITY | IRRITATION |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): 0.75 mg/24h-SEVERE |
| | Oral (rat) LD50: 3000 mg/kg ^[2] | Skin (rabbit): 500 mg/24h - mild |
| (C10-16)alkylbenzenesulfonic acid, sodium salt | TOXICITY | IRRITATION |
| | Oral (rat) LD50: 438 mg/kg ^[2] | Eye (rabbit): 0.25 mg/24hr-SEVERE |
| | | Eye (rabbit): 1% - SEVERE |
| | | Eye: adverse effect observed (irritating) ^[1] |
| | | Skin (rabbit): 20 mg/24 hr-SEVERE |
| | | Skin: adverse effect observed (corrosive) ^[1] Skin: no adverse effect observed (not irritating) ^[1] |
| alcohols C9-11 ethoxylated | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Eye (human): SEVERE |
| | Oral (rat) LD50: 1378 mg/kg ^[2] | Eye: adverse effect observed (irritating) ^[1] |
| | | Skin: no adverse effect observed (not irritating) ^[1] Skin: SEVERE |
| propylene glycol phenyl ether | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Not Available |
| | Oral (rat) LD50: 2830 mg/kg ^[2] | |
| vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate | TOXICITY | IRRITATION |
| | Oral (rat) LD50: >12800 mg/kg ^[2] | Eye (rabbit): None |

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

| | |
|---|--|
| CITRIC ACID | <p>For citric acid (and its inorganic citrate salts) Based on extensive animal testing data and on human experience, citric acid has low acute toxicity. Citric acid is not suspected of causing cancer, birth defects or reproductive toxicity. Further, it does not cause mutations. Also, the sensitizing potential is considered low. 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.</p> |
| (C10-16)ALKYLBENZENESULFONIC ACID, SODIUM SALT | <p>For alkaryl sulfonate petroleum additives: Acute toxicity: Existing data indicates relatively low acute toxicity. Animal testing suggested diarrhea and reduced food intake, which is consistent with the detergents in an oil-based vehicle having an irritating effect on the gastrointestinal tract. Subchronic toxicity: Existing data suggests minimal toxicity after chronic exposure by mouth. Repeated skin contact and inhalation in animals caused injury to the skin and the lungs, respectively. Linear alkyl benzene sulfonates are derived from strong corrosive acids. Animal testing has shown they can cause skin reactions, eye irritation, sluggishness, passage of frequent watery stools, weakness and may lead to death. They may also react with surfaces of the mouth and intestines, depending on the concentration exposed to. There is no evidence of harm to the unborn baby or tendency to cause cancer.</p> |

| | |
|--|---|
| <p>ALCOHOLS C9-11 ETHOXYLATED</p> | <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 oxidization 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>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.</p> <p>The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> <p>Dermal (rabbit): 4000 mg/kg * Somnolence, ataxia, diarrhoea recorded.</p> |
| <p>PROPYLENE GLYCOL PHENYL ETHER</p> | <p>No significant acute toxicological data identified in literature search.</p> <p>Propylene glycol phenyl ether (PPH) is rapidly absorbed, distributed throughout the body, metabolized, and eliminated after oral administration. The major routes of elimination are via the urine and feces. The types of metabolites are parent ether conjugates, hydrolysed propylene glycol, and hydrolysed alcohol (phenol) conjugates. Propylene glycol phenyl ether exhibits low acute toxicity by the oral, and inhalation routes.</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>Acute Toxicity: 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.</p> <p>For propylene glycol ethers (PGEs):</p> <p>Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA) and tripropylene glycol methyl ether (TPM).</p> <p>Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on the reproductive organs, the developing embryo and foetus, blood or thymus gland, are not seen with the commercial-grade propylene glycol ethers. In the ethylene series, metabolism of the terminal hydroxyl group produces and alkoxyacetic acid.</p> |
| <p>VINYLPYRROLIDONE/ DIMETHYLAMINOETHYL METHACRYLATE/ SULFATE</p> | <p>Most undiluted cationic surfactants satisfy the criteria for classification as Harmful (Xn) with R22 and as Irritant (Xi) for skin and eyes with R38 and R41.</p> <p>for 20 % w/v aqueous solution of analogous material: Human repeat insult patch test produced no irritation or sensitisation. Photoallergy and Contact Allergy Test: human (occlusive patch): slight transient reaction observed during test - no photoallergy or contact allergy induced. [ISP - Manufacturer]</p> <p>In a 13 week inhalation study in rats and hamsters using a hair conditioner containing 1.5% of the substance (0.3 mg/m3 solids) no deaths were produced nor could any adverse local or systemic effects, gross or microscopic findings in lungs or other tissues be identified. In a 28 dermal study in rabbits (4.7% solids in aqueous solutions), 0.1 mg/kg polymer was applied 5 days/week for 20 applications. No deaths were recorded, nor adverse behavioural or systemic reactions. Haematology, clinical blood chemistries and urinalysis showed no adverse reactions. Slight to mild irritation to the skin was noted. [ISP - Manufacturer]</p> |
| <p>CITRIC ACID & (C10-16)ALKYLBENZENESULFONIC ACID, SODIUM SALT & PROPYLENE GLYCOL PHENYL ETHER</p> | <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.</p> |
| <p>(C10-16)ALKYLBENZENESULFONIC ACID, SODIUM SALT & ALCOHOLS C9-11 ETHOXYLATED</p> | <p>The material may cause severe 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. Repeated exposures may produce severe ulceration.</p> |

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

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

Toxicity

| | | | | | |
|--|---------------|--------------------|-------------------------------|---------------|---------------|
| CLEANER SPRAY DETTOL APPLE MULTI PURPOSE 500ML | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | Not Available | Not Available | Not Available | Not Available | Not Available |
| citric acid | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | LC50 | 96 | Fish | 1-516mg/L | 2 |
| | EC50 | 48 | Crustacea | >50mg/L | 2 |
| | EC50 | 72 | Algae or other aquatic plants | 990mg/L | 2 |
| | EC0 | 72 | Crustacea | <80mg/L | 1 |
| | NOEC | 16 | Crustacea | 153mg/L | 4 |
| (C10-16)alkylbenzenesulfonic acid, sodium salt | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | LC50 | 96 | Fish | 1.18mg/L | 4 |
| | EC50 | 48 | Crustacea | 2.5mg/L | 2 |
| | EC50 | 96 | Algae or other aquatic plants | 1.9mg/L | 5 |
| | BCF | 8 | Fish | 1.1mg/L | 4 |
| | NOEC | 672 | Fish | 0.15mg/L | 2 |
| alcohols C9-11 ethoxylated | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | LC50 | 96 | Fish | 8.5mg/L | 4 |
| | EC50 | 48 | Crustacea | 2.5mg/L | 2 |
| | EC50 | 96 | Algae or other aquatic plants | 1.4mg/L | 2 |
| | EC20 | 72 | Algae or other aquatic plants | 0.711mg/L | 2 |
| | NOEC | 240 | Fish | 0.16mg/L | 2 |
| propylene glycol phenyl ether | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | LC50 | 96 | Fish | 55.998mg/L | 3 |
| | EC50 | 96 | Algae or other aquatic plants | 194.345mg/L | 3 |
| | LC50 | 96 | Fish | 57.916mg/L | 3 |
| | EC50 | 48 | Crustacea | >100mg/L | 2 |
| | EC50 | 72 | Algae or other aquatic plants | >100mg/L | 2 |
| | EC10 | 72 | Algae or other aquatic plants | 55.5mg/L | 2 |
| | NOEC | 72 | Algae or other aquatic plants | 12.5mg/L | 2 |
| vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | Not Available | Not Available | Not Available | Not Available | Not Available |

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

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|-------------------------------|-------------------------|------------------|
| citric acid | LOW | LOW |
| propylene glycol phenyl ether | LOW | LOW |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|-------------------------------|----------------------|
| citric acid | LOW (LogKOW = -1.64) |
| propylene glycol phenyl ether | LOW (LogKOW = 1.61) |

Mobility in soil

| Ingredient | Mobility |
|------------|----------|
|------------|----------|

| | |
|-------------------------------|-------------------|
| citric acid | LOW (KOC = 10) |
| propylene glycol phenyl ether | LOW (KOC = 18.74) |

SECTION 13 DISPOSAL CONSIDERATIONS

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"> ▶ Reduction ▶ Reuse ▶ Recycling ▶ Disposal (if all else fails) <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.</p> <ul style="list-style-type: none"> ▶ DO NOT allow wash water from cleaning or process equipment to enter drains. ▶ It may be necessary to collect all wash water for treatment before disposal. ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▶ Where in doubt contact the responsible authority. ▶ Recycle wherever possible. ▶ 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. ▶ 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). ▶ Decontaminate empty containers. |
|-------------------------------------|--|

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.

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 |
|------------|---|
| HSR002624 | N.O.S. (Subsidiary Hazard) Group Standard 2017 |
| HSR002535 | Gas Under Pressure Mixtures (Subsidiary Hazard) Group Standard 2017 |
| HSR002596 | Laboratory Chemicals and Reagent Kits Group Standard 2017 |
| HSR002530 | Cleaning Products (Subsidiary Hazard) Group Standard 2017 |
| HSR002585 | Fuel Additives (Subsidiary Hazard) Group Standard 2017 |
| HSR002519 | Aerosols (Subsidiary Hazard) Group Standard 2017 |
| HSR002521 | Animal Nutritional and Animal Care Products Group Standard 2017 |

| | |
|-----------|--|
| HSR002606 | Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2017 |
| HSR002644 | Polymers (Subsidiary Hazard) Group Standard 2017 |
| HSR002647 | Reagent Kits Group Standard 2017 |
| HSR002670 | Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 |
| HSR002638 | Photographic Chemicals (Subsidiary Hazard) Group Standard 2017 |
| HSR002565 | Embalming Products (Subsidiary Hazard) Group Standard 2017 |
| HSR002578 | Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017 |
| HSR002558 | Dental Products (Subsidiary Hazard) Group Standard 2017 |
| HSR002684 | Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2017 |
| HSR002573 | Fire Fighting Chemicals Group Standard 2017 |
| HSR100425 | Pharmaceutical Active Ingredients Group Standard 2017 |
| HSR002600 | Leather and Textile Products (Subsidiary Hazard) Group Standard 2017 |
| HSR002605 | Lubricants (Low Hazard) Group Standard 2017 |
| HSR002571 | Fertilisers (Subsidiary Hazard) Group Standard 2017 |
| HSR002648 | Refining Catalysts Group Standard 2017 |
| HSR002653 | Solvents (Subsidiary Hazard) Group Standard 2017 |
| HSR002544 | Construction Products (Subsidiary Hazard) Group Standard 2017 |
| HSR002549 | Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2017 |
| HSR100757 | Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2017 |
| HSR100758 | Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2017 |
| HSR100759 | Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2017 |
| HSR100580 | Tattoo and Permanent Makeup Substances Group Standard 2017 |
| HSR002612 | Metal Industry Products (Subsidiary Hazard) Group Standard 2017 |
| HSR002503 | Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017 |
| HSR002552 | Cosmetic Products Group Standard 2017 |

CITRIC ACID(77-92-9) 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 | |
| IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) |

(C10-16)ALKYLBENZENESULFONIC ACID, SODIUM SALT(68081-81-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| | |
|---|--|
| IMO IBC Code Chapter 17: Summary of minimum requirements | 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) | |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 3 Segregation requirements for dangerous goods |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data | United Nations Recommendations on the Transport of Dangerous Goods Model Regulations |

ALCOHOLS C9-11 ETHOXYLATED(68439-46-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| | |
|---|---|
| International Air Transport Association (IATA) Dangerous Goods Regulations | New Zealand Inventory of Chemicals (NZIoC) |
| International Maritime Dangerous Goods Requirements (IMDG Code) | New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals | United Nations Recommendations on the Transport of Dangerous Goods Model Regulations |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data | |

PROPYLENE GLYCOL PHENYL ETHER(41593-38-8) 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 | |
| IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) |

VINYLPYRROLIDONE/ DIMETHYLAMINOETHYL METHACRYLATE/ SULFATE(53633-54-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

| | |
|--|---|
| 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) | |
| New Zealand Inventory of Chemicals (NZIoC) | United Nations Recommendations on the Transport of Dangerous Goods Model 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 |
|-------------------------------|--|
| Australia - AICS | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (citric acid; propylene glycol phenyl ether; alcohols C9-11 ethoxylated; vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate; (C10-16)alkylbenzenesulfonic acid, sodium salt) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | No (alcohols C9-11 ethoxylated; vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate) |
| Japan - ENCS | No (alcohols C9-11 ethoxylated; vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate) |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | No (propylene glycol phenyl ether) |
| Vietnam - NCI | Yes |
| Russia - ARIPS | No (alcohols C9-11 ethoxylated; vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate) |
| Thailand - TECl | No (vinylpyrrolidone/ dimethylaminoethyl methacrylate/ sulfate) |
| Legend: | <i>Yes = All CAS declared ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i> |

SECTION 16 OTHER INFORMATION

| | |
|----------------------|------------|
| Revision Date | 25/01/2019 |
| Initial Date | 07/05/2014 |

SDS Version Summary

| Version | Issue Date | Sections Updated |
|---------|------------|--|
| 2.1.1.1 | 07/05/2014 | Classification |
| 3.1.1.1 | 25/01/2019 | One-off system update. NOTE: This may or may not change the GHS classification |

Other information

Ingredients with multiple cas numbers

| Name | CAS No |
|--|---|
| citric acid | 77-92-9, 1192555-95-5, 12262-73-6, 136108-93-5, 245654-34-6, 43136-35-2, 623158-96-3, 856568-15-5, 878903-72-1, 890704-54-8, 896506-46-0, 906507-37-7 |
| (C10-16)alkylbenzenesulfonic acid, sodium salt | 68081-81-2, 25155-30-0 |
| propylene glycol phenyl ether | 41593-38-8, 770-35-4, 4169-04-4 |

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

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