

## **SWIPE CITRUS CLEANER**

#### **Clark Products Limited**

Version No: **2.15**Safety Data Sheet according to HSNO Regulations

#### Chemwatch Hazard Alert Code: 4

Issue Date: **04/02/2016**Print Date: **04/02/2016**Initial Date: **08/09/2014**S.GHS.NZL.EN

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

Product Identifier	
Product name	SWIPE CITRUS CLEANER
Synonyms	ASX3160
Other means of identification	Not Available
Relevant identified uses of	f the substance or mixture and uses advised against
Relevant identified uses	Hard surface cleaner
Details of the supplier of the	he safety data sheet
Registered company name	Clark Products Limited
Address	24 Niven Street, Napier 4142 Hawkes Bay New Zealand
Telephone	06 843 3163
Fax	06 843 2958
Website	www.clarkproducts.co.nz
Email	orders@clarkproducts.co.nz
Emergency telephone num	nber
Association / Organisation	CHEMCALL
Emergency telephone numbers	0800 243 622
Other emergency telephone numbers	1800 243 622

#### **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		0 = Minimum
Body Contact	3		1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	4		4 = Extreme

Classification [1]	Acute Vertebrate Hazard Category 3, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		
Determined by Chemwatch using GHS/HSNO criteria	6.4A, 6.3A, 9.3C		

#### Label elements

GHS label elements



SIGNAL WORD WARNING

Hazard statement(s)

H433

Harmful to terrestrial vertebrates

Version No: 2.15 Page 2 of 11 Issue Date: 04/02/2016

#### SWIDE CITDLIS CLEANED

SWIPE CITRUS CLEANER	Print Date: <b>04/02/2016</b>

H319 Causes serious eye irritation	H315	Causes skin irritation
·	H319	Causes serious eye irritation

#### Precautionary statement(s) Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
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 soap and water.	

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

## **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
7732-18-5	Balance	water
111-76-2	<5	ethylene glycol monobutyl ether
68584-22-5	<5	(C10-16)alkylbenzenesulfonic acid
5989-27-5	<5	<u>d-limonene</u>
7601-54-9	<5	trisodium phosphate
6834-92-0	<5	sodium metasilicate, anhydrous

## **SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Description of first aid me	asures
Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with 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.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  ► Immediately flush body and clothes with large amounts of water, using safety shower if available.  ► Quickly remove all contaminated clothing, including footwear.  ► Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.  ► Transport to hospital, or doctor.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</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.

Version No: **2.15** Page **3** of **11** Issue Date: **04/02/2016** 

#### **SWIPE CITRUS CLEANER**

Print Date: 04/02/2016

- 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

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- ▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

INGESTION:

Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- Neutralising agents should never be given since exothermic heat reaction may compound injury.
- \* Catharsis and emesis are absolutely contra-indicated.
- \* Activated charcoal does not absorb alkali.
- \* Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- ▶ If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- · Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

▶ Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

#### **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

#### Special hazards arising from the substrate or mixture

Fine has a manatibility.	None known.
Fire Incompatibility	None known.

## Advice for firefighters

#### Fire Fighting

- ▶ 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
- ▶ 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.

Decomposes on heating and produces toxic fumes of; carbon dioxide (CO2) other pyrolysis products typical of burning organic materialMay emit poisonous fumes. May emit corrosive fumes.

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

#### Minor Spills

- ▶ 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

#### Moderate hazard.

- ► 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

## Safe handling

- Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

### Other information

Version No: **2.15** Page **4** of **11** Issue Date: **04/02/2016** 

SWIPE CITRUS CLEANER Print Date: 04/02/2016

#### Conditions for safe storage, including any incompatibilities

#### Suitable container

- ► Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

#### d-Limonene

- forms unstable peroxides in storage, unless inhibited; may polymerise
- ▶ reacts with strong oxidisers and may explode or combust

#### Storage incompatibility

- ▶ is incompatible with strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride
- ▶ flow or agitation may generate electrostatic charges due to low conductivity
- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- ▶ Avoid contact with copper, aluminium and their alloys.

#### **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	121 mg/m3 / 25 ppm	Not Available	Not Available	Skin absorption

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	20 ppm	20 ppm	700 ppm
d-limonene	Limonene, d-	20 ppm	20 ppm	160 ppm
trisodium phosphate	Sodium phosphate, tribasic; (Trisodium phosphate)	5 mg/m3	250 mg/m3	1500 mg/m3
sodium metasilicate, anhydrous	Sodium metasilicate pentahydrate	45 mg/m3	45 mg/m3	170 mg/m3
sodium metasilicate, anhydrous	Sodium silicate; (Sodium metasilicate)	18 mg/m3	230 mg/m3	230 mg/m3

Ingredient	Original IDLH	Revised IDLH
water	Not Available	Not Available
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm
(C10-16)alkylbenzenesulfonic acid	Not Available	Not Available
d-limonene	Not Available	Not Available
trisodium phosphate	Not Available	Not Available
sodium metasilicate, anhydrous	Not Available	Not Available

## Exposure controls

# Appropriate engineering controls

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.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

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.

#### Personal protection











### Eye and face protection

- Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.
- ► Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted.
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection.
- Alternatively a gas mask may replace splash goggles and face shields.

#### Skin protection

#### See Hand protection below

► Elbow length PVC gloves

#### ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

## Hands/feet protection

#### NOTE:

- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

#### Body protection

#### See Other protection below

#### Other protection

- Overalls.
- P.V.C. apron.

  ▶ Barrier cream.

### Thermal hazards

s Not Available

Version No: **2.15** Page **5** of **11** Issue Date: **04/02/2016** 

#### **SWIPE CITRUS CLEANER**

Print Date: 04/02/2016

#### 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:

SWIPE CITRUS CLEANER

Material	CPI
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NEOPRENE	С
NITRILE	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
VITON	С

<sup>\*</sup> 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. -

#### Respiratory protection

Type ABK-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	ABK-AUS / Class 1 P2	-	ABK-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	ABK-2 P2	ABK-PAPR-2 P2
up to 50 x ES	-	ABK-3 P2	-
50+ x ES	-	Air-line**	-

## ^ - Full-face

 $A(All\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur\ dioxide(SO2),\ G = Agricultural\ chemicals,\ K = Ammonia(NH3),\ Hg = Mercury,\ NO = Oxides\ of\ nitrogen,\ MB = Methyl\ bromide,\ AX = Low\ boiling\ point\ organic\ compounds(below\ 65\ degC)$ 

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

Physical state Liquid Relative density (Water = 1) Odour Not Available Not Available Not Available Not Available Auto-ignition temperature ("C) Not Applicable Surface Tension (dyn'cm or m\n'm) Not Applicable Not Available Upper Explosive Limit (%) Not Applicable Vapour pressure (kPa) Solubility in water (g/L) Not Applicable Phas a solution (1%) Not Applicable Not Available Phas a solution (1%) Not Available Not Available Not Available Phas a solution (1%) Not Available Not Available Not Available Phas a solution (1%) Not Available Not Available Not Available Not Available Phas a solution (1%) Not Available				
Odour         Not Available         Partition coefficient n-octanol / water         Not Available           Odour threshold         Not Available         Auto-ignition temperature (°C)         Not Applicable           pH (as supplied)         11-13         Decomposition temperature         Not Applicable           Melting point / freezing point (°C)         0         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 m/N/m)         Not Available           Upper Explosive Limit (%)         Not Applicable         Volatile Component (%vol)         Not Available           Vapour pressure (kPa)         Not Applicable         Gas group         Not Available           Solubility in water (g/L)         Miscible         PH as a solution (1%)         Not Available	Appearance	Clear orange liquid with a mild citrus odour		
Odour         Not Available         Partition coefficient n-octanol / water         Not Available           Odour threshold         Not Available         Auto-ignition temperature (°C)         Not Applicable           pH (as supplied)         11-13         Decomposition temperature         Not Applicable           Melting point / freezing point (°C)         0         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 m/N/m)         Not Available           Upper Explosive Limit (%)         Not Applicable         Volatile Component (%vol)         Not Available           Vapour pressure (kPa)         Not Applicable         Gas group         Not Available           Solubility in water (g/L)         Miscible         PH as a solution (1%)         Not Available				
Odour Not Available         n-octanol / water         Not Available           Odour threshold         Not Available         Auto-ignition temperature (°C)         Not Applicable           pH (as supplied)         11-13         Decomposition temperature temperature         Not Applicable           Melting point / freezing point (°C)         0         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           User Explosive Limit (%)         Not Applicable         Volatile Component (%vol)         Not Available           Vapour pressure (kPa)         Not Applicable         Gas group         Not Available           Solubility in water (g/L)         Miscible         PH as a solution (1%)         Not Available	Physical state	Liquid	Relative density (Water = 1)	1.006
Decomposition   Not Applicable   Not Applicable   Not Applicable	Odour	Not Available		Not Available
Melting point / freezing point (°C) 0 Viscosity (cSt) Not Available  Initial boiling point and boiling range (°C) Not Applicable  Flash point (°C) Not Applicable  Evaporation rate Not Available  Evaporation rate Not Available  Flammability Not Applicable  Oxidising properties Not Available  Flammability Not Applicable  Surface Tension (dyn/cm or mN/m)  Lower Explosive Limit (%) Not Applicable  Volatile Component (%vol) Not Available  Vapour pressure (kPa) Not Applicable  Solubility in water (g/L) Miscible  Mot Available  Not Available	Odour threshold	Not Available		Not Applicable
Initial boiling point and boiling range (°C)  Initial boiling range (°C)  Initial boiling point and boiling range (°C)  Initial boiling range (°C)  Initial boiling point and boiling range (°C)  Initial boiling range (°C)  Initial boiling point and boiling range (°C)  Initial boiling point and boiling range (°C)  Initial boiling point and boiling point	pH (as supplied)	11-13	•	Not Applicable
boiling range (°C)  Flash point (°C) Not Applicable  Evaporation rate Not Available  Flammability Not Applicable  Oxidising properties Not Available  Not Available  Not Applicable  Oxidising properties Not Available  Upper Explosive Limit (%) Not Applicable  Surface Tension (dyn/cm or mN/m)  Lower Explosive Limit (%) Not Applicable  Volatile Component (%vol) Vapour pressure (kPa) Not Applicable  Gas group Not Available  Not Available  Not Available  Not Available  Not Available  Not Available		0	Viscosity (cSt)	Not Available
Evaporation rate Not Available Explosive properties Not Available Oxidising properties Not Available Not Applicable Oxidising properties Not Available Upper Explosive Limit (%) Not Applicable Surface Tension (dyn/cm or mN/m) Not Available Not Applicable Volatile Component (%vol) Not Available Vapour pressure (kPa) Not Applicable Gas group Not Available Solubility in water (g/L) Miscible pH as a solution (1%) Not Available		100	Molecular weight (g/mol)	Not Applicable
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) Not Applicable Gas group Not Available  Solubility in water (g/L) Miscible pH as a solution (1%) Not Available	Flash point (°C)	Not Applicable	Taste	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)     Not Applicable     Gas group     Not Available       Solubility in water (g/L)     Miscible     pH as a solution (1%)     Not Available	Evaporation rate	Not Available	Explosive properties	Not Available
Lower Explosive Limit (%) Not Applicable Volatile Component (%vol) Not Available  Vapour pressure (kPa) Not Applicable Gas group Not Available  Solubility in water (g/L) Miscible pH as a solution (1%) Not Available	Flammability	Not Applicable	Oxidising properties	Not Available
Vapour pressure (kPa)     Not Applicable     Gas group     Not Available       Solubility in water (g/L)     Miscible     pH as a solution (1%)     Not Available	Upper Explosive Limit (%)	Not Applicable	, ,	Not Available
Solubility in water (g/L) Miscible pH as a solution (1%) Not Available	Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
	Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Vapour density (Air = 1)     Not Applicable       VOC g/L     Not Available	Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
	Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available
	Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

#### **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Reactivity	See section /
Chemical stability	<ul> <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
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

<sup>\*</sup> 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.

Version No: **2.15** Page **6** of **11** Issue Date: **04/02/2016** 

#### **SWIPE CITRUS CLEANER**

Print Date: 04/02/2016

## **SECTION 11 TOXICOLOGICAL INFORMATION**

Information	on	toxico	logical	effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. Not normally a hazard due to non-volatile nature of product  The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.		
Ingestion	inability to speak or swallow. Both the oesophagus and stomach may experience be The material has <b>NOT</b> been classified by EC Directives or other classification sy animal or human evidence.	ngestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an nability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow.  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.  Ingestion of anionic surfactants may produce diarrhoea, bloated stomach, and occasional vomiting.	
Skin Contact	The material can produce severe chemical burns following direct contact with the Skin contact is not thought to have harmful health effects (as classified under EC through wounds, lesions or abrasions.  Anionic surfactants can cause skin redness and pain, as well as a rash. Crackin Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may of the material and ensure that any external damage is suitably protected.	Directives); the material may s g, scaling and blistering can o	ccur.
Еуе	If applied to the eyes, this material causes severe eye damage.  Direct eye contact with corrosive bases can cause pain and burns. There may be the iris. Mild cases often resolve; severe cases can be prolonged with complication the eye, cataracts, eyelids glued to the eyeball and blindness.  Direct eye contact with some anionic surfactants in high concentration can cause excess blood flow, and comeal clouding and swelling. Recovery may take several.	ons such as persistent swelling severe damage to the cornea.	ng, scarring, permanent cloudiness, bulging of
Chronic	Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer.  Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.  Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.  There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.  In the presence of air, a number of common flavour and fragrance chemicals can form peroxides surprisingly fast. Antioxidants can in most cases minimise the oxidation.  Fragrance terpenes are generally easily oxidised in air. Non-oxidised limonene, linalool and caryophyllene turned out to be very weak sensitizers, however after oxidation limonene hydroperoxide and linalool hydroperoxide are strong sensitizers.  d-Limonene may cause damage to and growths in the kidney. These growths can progress to cancer.  Peroxidisable terpenes and terpenoids should only be used when the level of peroxides is kept to the lowest practicable level, for instance by adding antioxidants at the time of production. Such products should have a peroxide value of less than 10 millimoles peroxide per liter. This requirement is based on the published literature mentioning sensitising properties when containing peroxides.		
SWIPE CITRUS CLEANER	TOXICITY IRRITATION  Not Available Not Available		
	TOXICITY		IRRITATION
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup> Not Available		
	TOXICITY	IRRITATION	
ethylene glycol monobutyl	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	* [Union Carbide]	
ether	Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg SEVEF	
	Oral (rat) LD50. 250 mg/kg <sup>c</sup> 2	Skin (rabbit): 500 mg, open;	
	<u> </u>		
	TOXICITY		IRRITATION
(C10-16)alkylbenzenesulfonic acid	dermai (rati i D50; \$2000 mg/kg <sup>c</sup> )		Not Available
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		
d-limonene	TOXICITY  Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Nil reported	
a-ilmonene	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Skin (rabbit): 500mg/24h	moderate
	TOXICITY	IRRITATION	
trisodium phosphate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	- moderate*	
	Oral (rat) LD50: 7.4 gm/ Kg <sup>[1]</sup>	*[CCINFO - Monsanto]	

Version No: **2.15** Page **7** of **11** Issue Date: **04/02/2016** 

#### **SWIPE CITRUS CLEANER**

	11		
		Eye (rabbit):(FSHA) Corrosive*	
		scale of 8.0	
		Skin (rabbit):(FSHA) 3.3 on a	
	TOXICITY	IRRITATION	
sodium metasilicate, anhydrous	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup> Skin (human): 250 mg/24h SEVERE		
amyarous	Oral (rat) LD50: 600 mg/kg <sup>[1]</sup>	Skin (rabbit): 250 mg/24h SEVERE	
Legend:	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		
		may not be specific to this product. ore rarely as urticaria or Quincke's oedema. The pathogenesis of contact f the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve	

#### SWIPE CITRUS CLEANER

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

No significant acute toxicological data identified in literature search.

antibody-mediated immune reactions.

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.

d-Limonene is readily absorbed by inhalation and ingestion. Dermal absorption is reported to be lower than by the inhalation route. d-Limonene is rapidly distributed to different tissues in the body, readily metabolised and eliminated primarily through the urine.

Limonene exhibits low acute toxicity by all three routes in animals.

#### WATER

No significant acute toxicological data identified in literature search.

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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.

For ethylene glycol monoalkyl ethers and their acetates (EGMAEs):

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.

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.

## ETHYLENE GLYCOL MONOBUTYL ETHER

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.

Exposure of pregnant rats to ethylene glycol monobutyl ether (2-butoxyethanol) at 100 ppm or rabbits at 200 ppm during organogenesis resulted in maternal toxicity and embryotoxicity including a decreased number of viable implantations per litter. Slight foetoxicity in the form of poorly ossified or unossified skeletal elements was also apparent in rats. Teratogenic effects were not observed in other species.

At least one researcher has stated that the reproductive effects were less than that of other monoalkyl ethers of ethylene glycol. For ethylene glycol:

Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited information suggests that it is also absorbed through the respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is distributed throughout the body according to total body water. In most mammalian species, including humans, ethylene glycol is initially metabolised by alcohol.

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

#### No significant acute toxicological data identified in literature search.

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

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.

# (C10-16)ALKYLBENZENESULFONIC ACID

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

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.

## D-LIMONENE

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

d-Limonene is readily absorbed by inhalation and ingestion. Dermal absorption is reported to be lower than by the inhalation route. d-Limonene is

## rapidly distributed to different tissues in the body, readily metabolised and eliminated primarily through the urine. Limonene exhibits low acute toxicity by all three routes in animals.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

Tumorigenic by RTECS criteria

Print Date: 04/02/2016

Version No: 2.15 Page 8 of 11 Issue Date: 04/02/2016 Print Date: 04/02/2016

#### **SWIPE CITRUS CLEANER**

#### TRISODIUM PHOSPHATE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

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.

#### SODIUM METASILICATE, **ANHYDROUS**

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	<b>*</b>	Reproductivity	0
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

X - Data available but does not fill the criteria for classification

Data required to make classification available

O - Data Not Available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	LC50	96	Fish	897.520mg/L	3
ethylene glycol monobutyl ether	EC50	384	Crustacea	51.539mg/L	3
ethylene glycol monobutyl ether	LC50	96	Fish	222.042mg/L	3
ethylene glycol monobutyl ether	EC50	48	Crustacea	164mg/L	2
ethylene glycol monobutyl ether	NOEC	168	Crustacea	56mg/L	2
ethylene glycol monobutyl ether	EC50	96	Algae or other aquatic plants	720mg/L	2
(C10-16)alkylbenzenesulfonic acid	EC50	24	Crustacea	=5.9mg/L	1
(C10-16)alkylbenzenesulfonic acid	EC50	48	Crustacea	=2.9mg/L	1
(C10-16)alkylbenzenesulfonic acid	EC50	96	Algae or other aquatic plants	=170mg/L	1
(C10-16)alkylbenzenesulfonic acid	NOEC	96	Algae or other aquatic plants	125mg/L	2
d-limonene	EC50	384	Crustacea	0.051mg/L	3
d-limonene	EC50	96	Algae or other aquatic plants	0.212mg/L	3
d-limonene	LC50	96	Fish	0.199mg/L	3
d-limonene	EC50	48	Crustacea	0.36mg/L	2
d-limonene	NOEC	48	Crustacea	0.074mg/L	2
trisodium phosphate	LC50	96	Fish	28.5mg/L	4
trisodium phosphate	EC50	48	Crustacea	>100mg/L	2
trisodium phosphate	EC50	48	Algae or other aquatic plants	300mg/L	2
trisodium phosphate	EC50	72	Algae or other aquatic plants	>100mg/L	2
trisodium phosphate	NOEC	72	Algae or other aquatic plants	>100mg/L	2
sodium metasilicate, anhydrous	EC50	96	Crustacea	160mg/L	1
sodium metasilicate, anhydrous	LC50	96	Fish	180mg/L	1
sodium metasilicate, anhydrous	EC50	48	Crustacea	1700mg/L	2

Version No: 2.15 Page 9 of 11 Issue Date: 04/02/2016

#### **SWIPE CITRUS CLEANER**

sodium metasilicate, anhydrous	EC50	72	Algae or other aquatic plants	207mg/L	2
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - 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				

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters

Wastes resulting from use of the product must be disposed of on site or at approved waste sites

For Terpenes such as Limonene and Isoprene:

Atmospheric Fate: Contribute to aerosol and photochemical smog formation. When terpenes are introduced to the atmosphere, may either decrease ozone concentrations when oxides of nitrogen are low or, if emissions take place in polluted air (i.e. containing high concentrations of nitrogen oxides), leads to an increase in ozone concentrations. Lower terpenoids can react with unstable reactive gases and may act as precursors of photochemical smog therefore indirectly influencing community and ecosystem properties. The reactions of ozone with larger unsaturated compounds, such as the terpenes can give rise to oxygenated species with low vapour pressures that subsequently condense to form secondary organic aerosol.

Substances containing unsaturated carbons are ubiquitous in indoor environments. They result from many sources (see below). Most are reactive with environmental ozone and many produce stable products which are thought to adversely affect human health. The potential for surfaces in an enclosed space to facilitate reactions should be considered.

Unsaturated substances (Reactive Emissions) Major Stable Products produced following reaction with ozone. Source of unsaturated substances

For Linear Alkylbenzene Sulfonic Acids and their Salts (LABS): Log Kow: ~2.

Environmental Fate: The environmental fate of LABS and alkylbenzene sulfonate, (LAS), are expected to be similar. LABS are liquids and LAS is a solid at room temperature. Most of these chemicals will partition to the soil and water � very little move to the air or sediment. For Limonenes:

Atmospheric Fate: Due to the high volatility of limonene, the atmosphere is expected to be the major environmental sink for this chemical. The oxidation of limonene may contribute to aerosol and photochemical smog formation. The daytime atmospheric lifetime of d-limonene is estimated to range from 12 to 48 minutes depending upon local hydroxyl rate and ozone concentrations. Ozonolysis of limonene may also lead to the formation of hydrogen peroxide and organic peroxides, which have various toxic effects on plant cells and may damage forests. 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)
d-limonene	HIGH	HIGH
trisodium phosphate	HIGH	HIGH

#### Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
d-limonene	HIGH (LogKOW = 4.8275)
trisodium phosphate	LOW (LogKOW = -0.7699)

#### Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
ethylene glycol monobutyl ether	HIGH (KOC = 1)
d-limonene	LOW (KOC = 1324)
trisodium phosphate	HIGH (KOC = 1)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Product / Packaging

disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- ▶ If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- 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
- Treat and neutralise at an approved treatment plant.
- Treatment should involve: Neutralisation with suitable dilute acid followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

#### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Print Date: 04/02/2016

Page **10** of **11** Version No: 2.15 Issue Date: 04/02/2016

#### **SWIPE CITRUS CLEANER**

Print Date: 04/02/2016

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

Source	Ingredient	Pollution Category
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	d-limonene	Y

#### **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
HSR002530	Cleaning Products (Subsidiary Hazard) Group Standard 2006

#### WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

Chemicals

Chemicals

#### ETHYLENE GLYCOL MONOBUTYL ETHER(111-76-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC)
Monographs	New Zealand Workplace Exposure Standards (WES)
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of	

#### (C10-16)ALKYLBENZENESULFONIC ACID(68584-22-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals	New Zealand Inventory of Chemicals (NZIoC)

#### D-LIMONENE(5989-27-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	New Zealand Inventory of Chemicals (NZIoC)
Monographs	
New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of	

## TRISODIUM PHOSPHATE(7601-54-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of	New Zealand Inventory of Chemicals (NZIoC)
Chemicals	

## SODIUM METASILICATE, ANHYDROUS(6834-92-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of	New Zealand Inventory of Chemicals (NZIoC)
Chemicals	

#### **Location Test Certificate**

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, a location test certificate is required when quantity greater than or equal to those indicated below are present.

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

## **Approved Handler**

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

#### **Tracking Requirements**

Not Applicable

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (trisodium phosphate; water; d-limonene; sodium metasilicate, anhydrous; (C10-16)alkylbenzenesulfonic acid; ethylene glycol monobutyl ether)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (water)
Korea - KECI	Y

Version No: 2.15 Page 11 of 11 Issue Date: 04/02/2016 Print Date: 04/02/2016

#### **SWIPE CITRUS CLEANER**

New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

#### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
d-limonene	138-86-3, 5989-27-5
trisodium phosphate	7601-54-9, 96337-98-3

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.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

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

This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.