

# premium washroom products

## Spray & Wipe

SECTION 1 Identification of the substance / mixture and of the company / undertaking		
Chemwatch: <b>24-8912</b> /ersion No: <b>5.1</b> Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements	Issue Date: <b>10/03/2023</b> Print Date: <b>14/07/2023</b> L.GHS.AUS.EN.E	
	Chemwatch Hazard Alert Code: 2	

Product Identifier	
Product name	Spray & Wipe
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses General purpose cleaner.

### Details of the manufacturer or supplier of the safety data sheet

······	
Registered company name	Manningham Corporation
Address	10 Ryeland Ct, North Geelong VIC 3215
Telephone	1300 634 600
Fax	
Website	www.provada.com.au
Email	info@manham.com.au
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### Emergency telephone number

Association / Organisation	Manningham Corporation
Emergency telephone numbers	1300 634 600
Other emergency telephone numbers	Not Available

### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

### HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### Chemwatch Hazard Ratings

	Min	Max	
Flammability	0	1	
Toxicity	1		0 = Minimum
Body Contact	1	1	1 = Low
Reactivity	0		2 = Moderate
Chronic	2	1	3 = High 4 = Extreme

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Serious Eye Damage/Eye Irritation Category 2B, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 3	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### Label elements

Label elements	
Hazard pictogram(s)	
Signal word	Warning

#### Hazard statement(s)

H320	Causes eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H402	Harmful to aquatic life.

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves and protective clothing.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.
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#### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
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.		

#### Precautionary statement(s) Storage

P405 Store locked up.

#### Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

P501

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
10213-79-3	<10	sodium metasilicate, pentahydrate
111-76-2	<10	ethylene glycol monobutyl ether
Not Available	<10	surfactants
Not Available	<1	perfume
Not Available	<1	dye
7732-18-5	>60	water
Legend:	<ul> <li>1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4.</li> <li>Classification drawn from C&amp;L * EU IOELVs available</li> </ul>	

#### **SECTION 4 First aid measures**

#### Description of first aid measures If this product comes in contact with the eyes: Wash out immediately with fresh running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper Eye Contact 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. If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Skin Contact Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If fumes, aerosols or combustion products are inhaled remove from contaminated area. Inhalation Other measures are usually unnecessary. If swallowed do NOT induce vomiting. F 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. Ingestion 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

Fire Incompatibility None known.

Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Expansion or decomposition on heating may lead to violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> </ul> Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOx) sulfur oxides (SOx) phosphorus oxides (POx)
HAZCHEM	Not Applicable

#### 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> <li>Slippery when spilt.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Slippery when spilt.</li> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> <li>Wash area and prevent runoff into drains or waterways.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

### **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>				
Conditions for safe storage, including any incompatibilities					

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Segregate from , strong acids

### **SECTION 8 Exposure controls / personal protection**

### **Control parameters**

### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material r	name	TWA		STEL		Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol 20 ppm / 96.9 m		mg/m3	242 mg/m3 / 50 ppm		Not Available	Not Available	
Emergency Limits									
Ingredient	TEEL-1		TEEL-2	2			TEEL-3		
sodium metasilicate, pentahydrate	6.6 mg/m3 73 mg/m3				440 mg/m3				
sodium metasilicate, pentahydrate	3.8 mg/m3	3.8 mg/m3 42 mg/m3		250 mg/m3					
ethylene glycol monobutyl ether	60 ppm	60 ppm 120 ppm			700 ppm				
				Reviseu					
sodium metasilicate, pentahydrate	Not Available			Not Avail	Not Available				
ethylene glycol monobutyl ether	700 ppm		Not Avail	Not Available					
water	Not Available		Not Avail	Not Available					
Occupational Exposure Banding									
Ingredient	Occupational Exposure Band Rat	ling			Occupa	tional Expo	osure Band Li	mit	
sodium metasilicate, pentahydrate	E		≤ 0.01 n	ng/m³					
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the								

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

### MATERIAL DATA

None assigned. Refer to individual constituents.

#### 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.				
	Type of Contaminant:	Air Speed:			
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)			
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)			
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)			
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)			
	Within each range the appropriate value depends on:				

	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood - local control only				
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simp accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min.) for extraction of solvents generated considerations, producing performance deficits within the ext factors of 10 or more when extraction systems are installed of	e away from the opening of a simple extraction pipe. Velocity generally decreases e cases). Therefore the air speed at the extraction point should be adjusted, ng source. The air velocity at the extraction fan, for example, should be a minimum of in a tank 2 meters distant from the extraction point. Other mechanical raction apparatus, make it essential that theoretical air velocities are multiplied by r used.				
Individual protection measures, such as personal protective equipment						
Eye and face protection	<ul> <li>Safety glasses with side shields; or as required,</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>					
Skin protection	See Hand protection below					
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear.					

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

**Body protection** 

Other protection

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

See Other protection below

Overalls.

Eyewash unit.

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

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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

#### **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties

Appearance	Clear pink fragrant liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.095-1.105
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(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)

pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
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
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.3 @ 20 C	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	11.1-11.5
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### SECTION 10 Stability and reactivity

Reactivity	See section 7
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

### **SECTION 11 Toxicological information**

### Information on toxicological effects

intormation on toxicological er	16013		
Inhaled	Not normally a hazard due to non-volatile nature of produ-	ct	
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion may result in nausea, abdominal irritation, pain and vomiting		
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing skin condition Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	Limited evidence exists, or practical experience suggests, is expected to produce significant ocular lesions which are animals. Repeated or prolonged eye contact may cause in (conjunctivitis); temporary impairment of vision and/or oth	that the material may cause eye irritation in a substantial number of individuals and/or e present twenty-four hours or more after instillation into the eye(s) of experimental nflammation characterised by temporary redness (similar to windburn) of the conjunctiva er transient eye damage/ulceration may occur.	
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.		
Spray & Wipe			
	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
sodium metasilicate,	Oral (Rat) LD50: 1153 mg/kg <sup>[2]</sup>	Skin (human): 250 mg/24h SEVERE	
pentanyorate		Skin (rabbit): 250 mg/24h SEVERE	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	dermal (guinea pig) LD50: 210 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg SEVERE * [Union Carbide]	
	Inhalation(Rat) LC50: 450 ppm4h <sup>[2]</sup>	Eye (rabbit): 100 mg/24h-moderate	
ethylene glycol monobutyl	Oral (Rat) LD50: 250 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
etter		Skin (rabbit): 500 mg, open: mild	
		(	
		Skin: adverse effect observed (irritating) <sup>[1]</sup>	

	TOWOTY	
water	1000000000000000000000000000000000000	
		Not Available
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acut specified data extracted from RTECS - Register of Toxic Effect of ch</li> </ol>	e toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise emical Substances
SODIUM METASILICATE, PENTAHYDRATE	sodium metasilicate anhydrous: The material may be irritating to the eye, with prolonged contact cau conjunctivitis. Asthma-like symptoms may continue for months or even years after known as reactive airways dysfunction syndrome (RADS) which can criteria for diagnosing RADS include the absence of previous airway asthma-like symptoms within minutes to hours of a documented exp airflow pattern on lung function tests, moderate to severe bronchial h lymphocytic inflammation, without eosinophilia. RADS (or asthma) for the concentration of and duration of exposure to the irritating substance disorder is characterized by difficulty breathing, cough and mucus pr The material may produce respiratory tract irritation. Symptoms of pu breath, headache, nausea, and a burning sensation. Unlike most organs, the lung can respond to a chemical insult or a ci the damage (inflammation of the lungs may be a consequence). The repair process (which initially developed to protect mammalian I to the lungs (fibrosis for example) when activated by hazardous cher function of the lungs. Therefore prolonged exposure to respiratory irr	sing inflammation. Repeated or prolonged exposure to irritants may produce exposure to the material ends. This may be due to a non-allergic condition occur after exposure to high levels of highly irritating compound. Main s disease in a non-atopic individual, with sudden onset of persistent osure to the irritant. Other criteria for diagnosis of RADS include a reversible hyperreactivity on methacholine challenge testing, and the lack of minimal llowing an irritating inhalation is an infrequent disorder with rates related to nee. On the other hand, industrial bronchitis is a disorder that occurs as a (often particles) and is completely reversible after exposure ceases. The oduction. Jumonary irritation may include coughing, wheezing, laryngitis, shortness of nemical agent, by first removing or neutralising the irritant and then repairing ungs from foreign matter and antigens) may, however, cause further damage micals. Often, this results in an impairment of gas exchange, the primary itants may cause sustained breathing difficulties.
ETHYLENE GLYCOL MONOBUTYL ETHER	The material may produce severe inflation to the eye causing pronounced inflammation. Repeated or prolonged exposure to inflants may produce conjunctivitis. For athylene glycol incrvately effects and their acetates (EGMAE): Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and their acetates. EGMAEs are substrates for alcohol dehydrogenase isczyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). Further, rapic conversion of the aldehydes by aldehyde dehydrogenase produces alkowszetic acids, which a the predominant uniary metabolities of more substrated glycol terbs. Acute Toxicity: Oral LDSO values in rats for all category members range from 739 (EGHE) to 3089 mg/kg bw (EGPE), with values increasing with decreasing molecular velocity. Four to six hour acute inhalation toxicity studies were conducted for these chemicals in rats at the highest vapour concentrations practically achievable. Values range from LCO - 85 ppm (508 mg/m3) for EGHE, LCGS - 400pm (2620 mg/m3) for EGBEA to LCGS - 2132 ppm (961 mg/m3) for EGHE. No Itefailly was observed for any of these materials under these condidices Demain LDU values in rabbits range from 435 mg/kg bw (EGBE) to 1500 mg/kg bw (EGBEA). Overall these category members cause reversible indication to sin and eyes, with EGBEA to LCGS - 400bc cell befort in the other category members areas (EGHE) and non-specific CNS depression typical of argins colvents in genera Alkoxyacetic acid metabolites, propoxyacetic acid (PAA) and butoxyacetic acid (BAA), are responsible for the red blocd cell thomolysis. Signs of toxicity in humans deliberately ingesting cleaning fluids containing -22% EGBE are earling to these of lass. This exacetides in the resting the toxicity from ECPE and EGBE in wirro than these of rats. Repeat dose toxicity: The activatit that the NACEL for repeated dose toxicity of EGBE is less than that of ECPE is consistent with red blood	

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	carcinoma of the forestomach. It was hypothesised th forestomach and that the neoplasia were associated concentration -dependent increase in the incidence of 1: NTP Toxicology Program Technical report Series 4	at exposure-induced irritation produce with a continuation of the injury/ deger f haemangiosarcoma of the liver of ma 84, March 2000.	ed inflammatory and hyperplastic effects in the neration process. Exposure also produced a ale mice and hepatocellular carcinoma.
WATER	No significant acute toxicological data identified in literature search.		
SODIUM METASILICATE, PENTAHYDRATE & ETHYLENE GLYCOL MONOBUTYL ETHER	The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryt spongy layer (spongiosis) and intracellular oedema of	or repeated exposure and may produ hema) and swelling epidermis. Histolo the epidermis.	ice a contact dermatitis (nonallergic). This form of ogically there may be intercellular oedema of the
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	✓
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: X – Data either r	not available or does not fill the criteria for classification le to make classification

**SECTION 12 Ecological information** 

### Toxicity

	Endpoint	Test Duration (hr)	Species		Value	Source
Spray & Wipe	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Va	alue	Source
sodium metasilicate, pentahydrate	EC50	72h	Algae or other aquatic plants	Algae or other aquatic plants 207mg/l		2
	EC50	48h	Crustacea	22	2.94-49.01mg/l	4
	LC50	96h	Fish	18	30mg/l	1
	EC50(ECx)	48h	Crustacea	22	2.94-49.01mg/l	4
ethylene glycol monobutyl ether	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	72h	Algae or other aquatic plants		623mg/l	2
	EC50	48h	Crustacea	Crustacea 164mg/l		2
	EC50	96h	Algae or other aquatic plants		720mg/l	2
	LC50	96h	Fish		1700mg/l	Not Available
	EC10(ECx)	48h	Crustacea	Crustacea 7.2mg/l		2
water	Endpoint	Test Duration (hr)	Species		Value	Source
	Not Available	Not Available	Not Available		Not Available	Not Available
Legend:	Extracted from Ecotox databa	n 1. IUCLID Toxicity Data 2. Europe ECI se - Aquatic Toxicity Data 5. ECETOC , vien Data 8. Vender Data	HA Registered Substances - Ecotoxicological Info Aquatic Hazard Assessment Data 6. NITE (Japan	rmation - Aqua ) - Bioconcent	atic Toxicity 4. ( tration Data 7. N	US EPA, ⁄IETI (Japa

#### DO NOT discharge into sewer or waterways.

### Persistence and degradability

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

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethylene glycol monobutyl ether	LOW (BCF = 2.51)

### Mobility in soil

Ingredient	Mobility
ethylene glycol monobutyl ether	HIGH (KOC = 1)

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

Continued...

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Spray & Wipe

<ul> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>	<ul> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
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#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG): 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

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium metasilicate, pentahydrate	Not Available
ethylene glycol monobutyl ether	Not Available
water	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium metasilicate, pentahydrate	Not Available
ethylene glycol monobutyl ether	Not Available
water	Not Available

### **SECTION 15 Regulatory information**

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

sodium metasilicate, pentahydrate is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

#### ethylene glycol monobutyl ether is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

### water is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

Australian Inventory of Industrial Chemicals (AIIC)

Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium metasilicate, pentahydrate; ethylene glycol monobutyl ether; water)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	10/03/2023
Initial Date	01/11/2009

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
4.1	23/12/2022	Classification review due to GHS Revision change.
5.1	10/03/2023	Classification change due to full database hazard calculation/update.

#### Other information

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC - TWA: Permissible Concentration-Time Weighted Average PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard 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** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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