ACCO Brands Australia Pty Ltd

Version No: **1.2** Safety Data Sheet according to WHS and ADG requirements Issue Date: **05/01/2018** Print Date: **07/03/2016** Initial Date: **11/02/2016** S.GHS.AUS.EN

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

Product Identifier

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

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

Relevant identified uses Surface Cleaner and Disinfecant

Details of the supplier of the safety data sheet

Registered company name	ACCO Brands Australia Pty Ltd
Address	17-19 Waterloo Street, Queanbeyan 2620 NSW Australia
Telephone	+61-2-96740900
Fax	+61-2-96740910
Website	www.accobrands.com.au
Email	sds.anz@acco.com

Emergency telephone number

• • •	
Association / Organisation	Poisons Information Line
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	13 11 26

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
Classification ^[1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Acute Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Label elements



SIGNAL WORD WARNING

Hazard statement(s)

...............

H315	Causes skin irritation
H319	Causes serious eye irritation
H401	Toxic to aquatic life

Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P273	Avoid release to the environment.

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.
P332+P313	If skin irritation occurs: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.
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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7732-18-5	87	water
111-76-2	<10	ethylene glycol monobutyl ether
8001-54-5	<10	benzalkonium chloride
68131-39-5	<10	alcohols C12-15 ethoxylated
64-17-5	<10	ethanol

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

[Ellenhorn and Barceloux: Medical Toxicology]

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

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

- In such an event consider: foam.
 - dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

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. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
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 may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Environmental hazard - contain spillage. 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. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Environmental hazard - contain spillage. 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. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling.

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. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke.
Other information	

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.
Storage incompatibility	 Ethylene glycol monobutyl ether (2-butoxyethanol) and its acetate: May form unstable peroxides in storage is incompatible with oxidisers, permanganates, peroxides, ammonium persulfate, bromine dioxide, nitrates, strong acids, sulfuric acid, nitric acid, perchloric acid
	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)						
INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes

Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9 mg/m3 / 20 ppm		242 mg/m3 / 50 ppr	m	Not Available	Sk
Australia Exposure Standards	ethanol	Ethyl alcohol	1880 mg/m3 / 1000 p	om	Not Available		Not Available	Not Available
EMERGENCY LIMITS								
Ingredient	Material name				TEEL-1	TEE	L-2	TEEL-3
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	Butoxyethanol, 2-; (Glycol ether EB)			20 ppm	20 pp	om	700 ppm
benzalkonium chloride	Alkyl dimethylbenzyl ammonium chloride; (Benzalkonium chloride)			4.7 mg/m3	48 m	ıg/m3	48 mg/m3	
ethanol	Ethyl alcohol; (Ethanol)		Not Available	Not /	Available	Not Available		
Ingredient	Original IDLH	Original IDLH Revised			DLH			
water	Not Available	Not Available Not Availa			lilable			
ethylene glycol monobutyl ether	700 ppm	700 ppm 700 [Unct			nch] ppm			
benzalkonium chloride	Not Available	Not Available No		ot Available				
alcohols C12-15 ethoxylated	Not Available		Not	Not Available				
ethanol	15,000 ppm 3,300			00 [LEL] ppm				

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.
Personal protection	
Eye and face protection	 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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 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. 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. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Wear safety footwear or safety gumboots, e.g. PVC.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

Spray On Wipe Off

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. Page 5 of 10

Spray On Wipe Off

Powered Air

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

Protection Factor	Respirator	Respirator	Respirator
up to 5 x ES	A-AUS / Class 1 P2	-	A-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	A-2 P2	A-PAPR-2 P2
up to 50 x ES	-	A-3 P2	-
50+ x ES	-	Air-line**	-

Full-Face

Half-Face

^ - Full-face

Required Minimum

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)

* 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

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

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7	
Chemical stability	 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	
Hazardous decomposition products	See section 5	

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).
Inhaled	Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
	Not normally a hazard due to non-volatile nature of product

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	Severe acute exposure to ethylene glycol monobutyl ether, by ingestion, may cause kidney damage, haemoglobinuria, (blood in urine) and is potentially fatal. The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Ethylene glycol monobutyl ether penetrates the skin easily and will cause more harm on skin contact than through inhalation. 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 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	Although the liquid is not thought to be an irritant (as classified by EC Directives) by tearing or conjunctival redness (as with windburn). Ethylene glycol monobutyl ether may cause pain, redness and damage to the eyes	-	ay produce transient discomfort characterised	
Chronic	Substance accumulation, in the human body, may occur and may cause some co There has been concern that this material can cause cancer or mutations, but the Prolonged exposure to ethanol may cause damage to the liver and cause scarring	re is not enough data to make	an assessment.	
	ΤΟΧΙΟΠΥ	IRRITATION		
Spray On Wipe Off	Not Available	Not Available		
water			IRRITATION Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	dermal (rat) LD50: >2000 mg/kg ^[1]	* [Union Carbide]		
ethylene glycol monobutyl	Inhalation (rat) LC50: 450 ppm/4H ^[2]	Eye (rabbit): 100 mg SEVERE		
ether	Oral (rat) LD50: 250 mg/kg ^[2]	Eye (rabbit): 100 mg/24h-moderate		
		Skin (rabbit): 500 mg, open;	mild	
	ΤΟΧΙGITY	IRRITATION		
	Dermal (rabbit) LD50: 1560 mg/kgE ^[2]	Eye (human): 0.05 mg	SEVERE	
benzalkonium chloride	Oral (rat) LD50: 240 mg/kgd ^[2]	Eye (rabbit): 1mg/24h		
		Skin (human): 0.15 mg		
	TOXICITY		IRRITATION	
alcohols C12-15 ethoxylated	Dermal (rabbit) LD50: >2000 mg/kgt ^[2]		Eye: SEVERE *	
	Oral (rat) LD50: 1600 mg/kg** ^[2]		Skin: slight	
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 17100 mg/kg ^[1]	abbit) LD50: 17100 mg/kg ^[1] Eye (rabbit): 500 mg SEV		
ethanol	Inhalation (rat) LC50: 64000 ppm/4h ^[2]	Eye (rabbit):100mg/24hr-moderate		
	Oral (rat) LD50: >1187-2769 mg/kg ^[1]	Skin (rabbit):20 mg/24hr-r	moderate	
		Skin (rabbit):400 mg (ope	n)-mild	
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* 	Value obtained from manufac	turer's SDS_Unless otherwise specified data	

	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
ETHYLENE GLYCOL	metabolites of mono substituted glycol ethers.
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. Four to six hour acute inhalation toxicity studies were conducted for these chemicals in rats at the highest vapour concentrations practically achievable. Values range from LC0 > 85 ppm (508 mg/m3) for EGHE, LC50 > 400ppm (2620 mg/m3) for EGBEA to LC50 > 2132 ppm (9061 mg/m3) for EGPE. No lethality was observed for any of these materials under these conditions. Dermal LD50 values in rabbits range from 435 mg/kg bw (EGBE) to 1500 mg/kg bw (EGBEA).
	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.

BENZALKONIUM CHLORIDE	For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract. Limited infor respiratory tract; dermal absorption is apparently slow. Following absorption, ethylene glycol is dis most mammalian species, including humans, ethylene glycol is initially metabolised by alcohol. dehydrogenase to form glycolaldehyde, which is rapidly converted to glycolic acid and glyoxal by alc metabolites are oxidised to glyoxylate; glyoxylate may be further metabolised to formic acid, oxalic a can generate CO2, which is one of the major elimination products of ethylene glycol. In addition to both the parent compound and glycolic acid. NOTE: Changes in kidney, liver, spleen and lungs are observed in animals exposed to high conce Asthma-like symptoms may continue for months or even years after exposure to the material cease reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abr to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with t on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosir of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates r irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of (often particulate in nature) and is completely reversible after exposure ceases. The disorder is ch Alkyldimethylbenzylammonium chlorides are in the list of dangerous substances of council directin ingestion", and "corrosive and very toxic to equatic organisms". It can cause dose dependent skin	tributed throughout the body according to total body water. In dehyde oxidase and aldehyde dehydrogenase. These acid, and glycine. Breakdown of both glycine and formic acid exhaled CO2, ethylene glycol is eliminated in the urine as entrations of this substance by all routes. ** ASCC (NZ) SDS as. This may be due to a non-allergenic condition known as s of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes he presence of moderate to severe bronchial hyperreactivity nophilia, have also been included in the criteria for diagnosis related to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance iaracterised by dyspnea, oough and mucus production. ve, classified as "harmful in contact with skin and on
ALCOHOLS C12-15 ETHOXYLATED ETHANOL	possible sensitisation in those with pre-existing eczema. It does not cause cancer, genetic defect, Human beings have regular contact with alcohol ethoxylates through a variety of industrial and cor cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contar volumes well above a reasonable intake level would have to occur to produce any toxic response. It has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have terms of oral and dermal toxicity . Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as u lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohor rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 200 Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AE reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated conjunctivitis. for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9) The material may cause skin irritation after prolonged or repeated exposure and may produce on of scaling and thickening of the skin.	foetal or developmental abnormality. Insumer products such as soaps, detergents, and other ct with the skin or eyes. Studies of acute toxicity show that voreover, no fatal case of poisoning with alcohol ethoxylates is shown that the use of these compounds is of low concern in lcerations of the stomach, pilo-erection, diarrhea, and ol ethoxylates were applied to the skin and eyes of rabbits and 17). Es) causing genetic damage, mutations or cancer. No adverse d or prolonged exposure to irritants may produce
ETHOXYLATED	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and cor cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contai volumes well above a reasonable intake level would have to occur to produce any toxic response. It has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have terms of oral and dermal toxicity . Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as u lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohor rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 200 Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AE reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated conjunctivitis. for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9) The material may cause skin irritation after prolonged or repeated exposure and may produce on the severe and the severe and may produce on the severe and the severe	foetal or developmental abnormality. Insumer products such as soaps, detergents, and other ct with the skin or eyes. Studies of acute toxicity show that voreover, no fatal case of poisoning with alcohol ethoxylates is shown that the use of these compounds is of low concern in lcerations of the stomach, pilo-erection, diarrhea, and ol ethoxylates were applied to the skin and eyes of rabbits and 17). Es) causing genetic damage, mutations or cancer. No adverse d or prolonged exposure to irritants may produce
ETHOXYLATED ETHANOL Spray On Wipe Off &	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and cor cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contar volumes well above a reasonable intake level would have to occur to produce any toxic response. It has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have terms of oral and dermal toxicity . Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as u lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohu rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 200 Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AE reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated conjunctivitis. for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9) The material may cause skin irritation after prolonged or repeated exposure and may produce on or scaling and thickening of the skin.	foetal or developmental abnormality. Insumer products such as soaps, detergents, and other ct with the skin or eyes. Studies of acute toxicity show that voreover, no fatal case of poisoning with alcohol ethoxylates is shown that the use of these compounds is of low concern in lcerations of the stomach, pilo-erection, diarrhea, and ol ethoxylates were applied to the skin and eyes of rabbits and 17). Es) causing genetic damage, mutations or cancer. No adverse d or prolonged exposure to irritants may produce
ETHOXYLATED ETHANOL Spray On Wipe Off & WATER	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and cor cleaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contar volumes well above a reasonable intake level would have to occur to produce any toxic response. It has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have terms of oral and dermal toxicity . Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as u lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohor rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 200 Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AE reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated conjunctivitis. for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9) The material may cause skin irritation after prolonged or repeated exposure and may produce on e scaling and thickening of the skin. No significant acute toxicological data identified in literature search.	foetal or developmental abnormality. nsumer products such as soaps, detergents, and other ct with the skin or eyes. Studies of acute toxicity show that <i>V</i> oreover, no fatal case of poisoning with alcohol ethoxylates s shown that the use of these compounds is of low concern in lcerations of the stomach, pilo-erection, diarrhea, and ol ethoxylates were applied to the skin and eyes of rabbits and 07). Es) causing genetic damage, mutations or cancer. No adverse d or prolonged exposure to irritants may produce contact skin redness, swelling, the production of vesicles,
ETHOXYLATED ETHANOL Spray On Wipe Off & WATER Acute Toxicity	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and cordeaning products . Exposure to these chemicals can occur through ingestion, inhalation, or contain volumes well above a reasonable intake level would have to occur to produce any toxic response. Note that the event been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have terms of oral and dermal toxicity . Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as used to be the experimental studies indicate these chemicals may produce gastrointestinal irritation such as used to be the experimental studies indicate these chemicals may produce gastrointestinal irritation such as used to be the experimental studies indicate these chemicals may produce gastrointestinal irritation such as used to be the experimental studies indicate these chemicals may produce for alcohol ethoxylates (AE reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated conjunctivitis. for Tergitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9) The material may cause skin irritation after prolonged or repeated exposure and may produce on escaling and thickening of the skin. No significant acute toxicological data identified in literature search.	foetal or developmental abnormality. Insumer products such as soaps, detergents, and other ct with the skin or eyes. Studies of acute toxicity show that Voreover, no fatal case of poisoning with alcohol ethoxylates is shown that the use of these compounds is of low concern in Icerations of the stomach, pilo-erection, diarrhea, and ol ethoxylates were applied to the skin and eyes of rabbits and 17). Es) causing genetic damage, mutations or cancer. No adverse d or prolonged exposure to irritants may produce contact skin redness, swelling, the production of vesicles,
ETHOXYLATED ETHANOL Spray On Wipe Off & WATER Acute Toxicity Skin Irritation/Corrosion Serious Eye	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and cordeaning products. Exposure to these chemicals can occur through ingestion, inhalation, or contarvolumes well above a reasonable intake level would have to occur to produce any toxic response. Neasever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have terms of oral and dermal toxicity. Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as u lethargy. Similarly, slight to severe irritation of the skin or eye was generated when undiluted alcohr rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 200 Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AE reproductive or developmental effects were observed. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated conjunctivitis. for Targitol 25-L-9: Neodol 25-9 Neodol 25-7 *Shell Canada ** Huntsman (for Teric 12A9) The material may cause skin irritation after prolonged or repeated exposure and may produce on escaling and thickening of the skin. No significant acute toxicological data identified in literature search. O Carcinogenicity Reproductivity	foetal or developmental abnormality. Insumer products such as soaps, detergents, and other ct with the skin or eyes. Studies of acute toxicity show that Voreover, no fatal case of poisoning with alcohol ethoxylates is shown that the use of these compounds is of low concern in Icerations of the stomach, pilo-erection, diarrhea, and ol ethoxylates were applied to the skin and eyes of rabbits and 07). Es) causing genetic damage, mutations or cancer. No adverse d or prolonged exposure to irritants may produce contact skin redness, swelling, the production of vesicles,

Data available but does not nil ure onena ro.
 Data required to make classification available

S – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

oxicity					
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
benzalkonium chloride	EC50	24	Algae or other aquatic plants	0.0013mg/L	4
benzalkonium chloride	EC50	48	Crustacea	0.018mg/L	4
benzalkonium chloride	EC50	96	Algae or other aquatic plants	0.056mg/L	4
benzalkonium chloride	LC50	96	Fish	0.32mg/L	4

benzalkonium chloride	NOEC	1	Algae or other aquatic plants	0.0025mg/L	4
alcohols C12-15 ethoxylated	LC50	96	Fish	0.59mg/L	2
alcohols C12-15 ethoxylated	EC50	48	Crustacea	0.13mg/L	2
alcohols C12-15 ethoxylated	EC50	48	Crustacea	0.14mg/L	2
alcohols C12-15 ethoxylated	NOEC	48	Crustacea	0.056mg/L	2
alcohols C12-15 ethoxylated	EC50	72	Algae or other aquatic plants	0.3mg/L	2
ethanol	EC50	24	Algae or other aquatic plants	0.0129024mg/L	4
ethanol	EC50	48	Crustacea	2mg/L	4
ethanol	LC50	96	Fish	42mg/L	4
ethanol	NOEC	2016	Fish	0.000375mg/L	4
ethanol	EC50	72	Algae or other aquatic plants	275mg/L	2
Legend:	Aquatic Toxicity Data (E	, ,	egistered Substances - Ecotoxicological Infor ase - Aquatic Toxicity Data 5. ECETOC Aqua		

Harmful to aquatic organisms.

For Ethelene Glycol Monoalkyl Ethers and their Acetates: log BCF: 0.463 to 0.732;

LC50 : 94 to > 5000 mg/L. (aquatic species).

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Members of this category include ethylene glycol propyl ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE). Environmental Fate: Aquatic Fate - The ethers possess no functional groups that are readily subject to hydrolysis in the presence of waters. The acetates possess an ester group that hydrolyses in neutral ambient water under abiotic conditions. Will partition predominately to water and, to a lesser extent, to air and soil. Soil - Highly mobile in soil.

Ecotoxicity: Ethelene glycol monoalkyl ethers and their acetates are readily biodegradable.

DO NOT discharge into sewer or waterways.

Persistence and degradability

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

Bioaccumulative potential

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

Mobility in soil

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

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In so areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
	▶ Reduction
	▶ Reuse
	▶ Recycling
	► Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may
	possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this typ
Product / Packaging	Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
disposal	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.
	Kinde in foodat on responsible during. Recycle wherever possible.
	 Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal fa
	can be identified.
	 Dispose of 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).
	Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Marine Pollutant	NO	
HAZCHEM	Not Applicable	
and transport (ADG): NO	T REGULATED FOR TRANSPORT OF DANGER	
ir transport (ICAO-IATA / I	OGR): NOT REGULATED FOR TRANSPORT OF	DANGEROUS GOODS
ea transport (IMDG-Code	/ GGVSee): NOT REGULATED FOR TRANSPO	RT OF DANGEROUS GOODS
ransport in bulk accordin Not Applicable	ng to Annex II of MARPOL and the IBC code	
ECTION 15 REGULATO	RY INFORMATION	
afety, health and environ	mental regulations / legislation specific for	the substance or mixture
	ON THE FOLLOWING REGULATORY LISTS	
Australia Inventory of Chemical S		
ETHYLENE GLYCOL MONOBI	UTYL ETHER(111-76-2) IS FOUND ON THE FOLLOWIN	G REGULATORY LISTS
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)
	Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
		Monographs
BENZALKONIUM CHLORIDE(8001-54-5) IS FOUND ON THE FOLLOWING REGULAT	
BENZALKONIUM CHLORIDE(Australia Inventory of Chemical S	•	
Australia Inventory of Chemical S	•	ORY LISTS
Australia Inventory of Chemical S	substances (AICS)	ORY LISTS
Australia Inventory of Chemical S ALCOHOLS C12-15 ETHOXYL Australia Hazardous Substances	ATED(68131-39-5) IS FOUND ON THE FOLLOWING RE Information System - Consolidated Lists	ORY LISTS
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SECTION 16 OTHER INFORMATION

Other information

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

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

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

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